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"CHEMICUS CANNON LONDON."

**Established in
[AUSTRALASIA, 1885.]**

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DECEMBER 14, 1912.

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May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Pothe, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Swales, Thomas
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE

Brook, Parker & Co., Ltd.
Gathergood's Exor.
Goodhall, Backhouse & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son
Schmitt & Wildenhayn
Sparks, White & Co., Ltd.

DYEWARES

Clemons, Marshall & Carhert

EAU DE COLOGNE

Bronnley, H., & Co., Ltd.
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtnay & Co.
McCracken, J. & R.
Renter, R. J.
Schutze, F., & Co., Ltd.
Spurway & Cie., Ltd.

EDUCATIONAL INSTITUTES

Bath & West of England College
Birmingham & Midland College
College of Preceptors
Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College

EFFERVESCENT PREPS.

Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Bristol-Myers Co.
Cupal, Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

ELASTIC CORDS

MacLennan, John, & Co.

ELASTIC HOBIERY

Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co. Ltd.
Wood, Vincent

ELECTRICAL NOVELTIES

Evans Sons Lescher & Webb, Ltd.
Millard Bros., Ltd.
Ward & Goldstone
Wright, Archibald J., Ltd.

EMERY AND CLOTH

Oakey, J., & Son, Ltd.

EMETINE SALTS

Whiffen & Sons, Ltd.

EMULSIFIERS

Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.

EMULSIONS, C. L. O., &c.

Ayrton, Saunders & Co., Ltd.
Baies Bros. & Stevenson, Ltd.
Boulton Macro, Ltd.
Burgoyne, Burdidge & Co.
Cupal, Ltd.
Kirby, Fairbank
Lorimer Marshall, Ltd.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.

ENEMAS

Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Warne W., & Co., Ltd.

EPSOM SALTS

Howards & Sons, Ltd.

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts & Co. Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Newball & Mason
Stevenson & Howell, Ltd.

ESSENCES, CONCRETE

Spurway & Cie., Ltd.

ETHERS

Baies Bros. & Stevenson Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL

British Drug Houses, Ltd. The
Stevenson, H. E., & Co.

EYE BATHS

Sangers

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)

Allen, Stafford & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Gathergoode, Exors.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son

FACTORY, &c., SITES

North-Eastern Railway
Reuter, R. J.

FEEDING BOTTLES.

Reuter, R. J.

FILTER PAPER

Burgoyne, Burbidges & Co.

FILTERS

Berkefeld Filter Co., Ltd.

FLYCATCHERS

Alabastine Co. (British), Ltd.
Barracough, J., & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Tunbridge & Wright

FOODS, INVALID, ETC.

Allen & Hanburys, Ltd.
Aplin & Barrett, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Burgoyne, Burbidges & Co.
Cox, Arthur H., & Co., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Horlick's Malted Milk Co.
Lofthouse & Saltmer, Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Pearson, E. T., & Co.
Sister Laura's Infant Food Co.
Willows, Francis B. & T.
Woolley, Jas., Sons & Co., Ltd.

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Sanitas Co., Ltd.

GLYCEIN

Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES

Merek, E.
Pointet & Girard

GREASE REMOVER

Perkin & Co., Ltd.

GRINDERS, DRUG, &c.

Allen, Stafford & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.
Wright, Layman & Umney, Ltd.

GRINDERS (MACHINE)

Hardy Patent Pick Co., Ltd.

GUMS

Fink, F., & Co.
Kidston, W. M., & Co.

HAIR DYES

Harker, Stagg & Morgaa, Ltd.

HAND-CARTS, TRUCKS, &c.

Crewe & Co.

HAIR PREPARATIONS

Alexandre, L.
Blackie, Robert
Cabellene
Edwardes' "Harlene" Co.
Harrison, G. W.
John Strange Winter
Koko-Maricopas Co., Ltd.
Osborne, Garrett & Co.
Robare's Aureoline
Van Esen, James, & Co., Ltd.
Warner Oliver, Ltd.

HAT CLEANERS

Christy, Thos., & Co.
Senior Alf., & Co.

HAT DYES

Whitaker & Co.

HEARING APPARATUS

Stolz Electrophone Co., Ltd.

HERBS

Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

HOT-WATER BOTTLES

Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Fulham Pottery and Cheavin
Filter Co., Ltd.
Galen Manfg. Co., Ltd.
Schutze, F., & Co., Ltd.
Tompkins, J., Ltd.
Toogood, William, Ltd.
Wood Vincent
X. L. Rubber Co.

HOTELS

Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPNOTICS

Knoll & Co.

HYPOPHOSPHITES

May & Baker, Ltd.
Morson, T., & Son
Tyrer, T., & Co., Ltd.

ICHTHYOL

Ichthyol Gesellschaft

INSECTICIDES

Christy, T., & Co.
Darlington, Wm., & Sons
Tomlinson & Hayward, Ltd.

INSECT POWDER

Danyasz Virus, Ltd.
Keating, Thomas

INSTEP SUPPORTS

Scholl Manfg. Co.

JUJUBES

Guest, Thos., & Co.
Potter & Clarke, Ltd.

LANOLINE

Burroughs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVERDER WATER.

Bush, W. J., & Co., Ltd.
Rivers, Hill & Co., Ltd.

LEATHER BLACK

Whitaker & Co.

LECITHIN

Chem. Works "Victoria"

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, &c.

Mumford, G. S., & Sons

LINTS

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

LIQUORICE JUICE

Apollo
Evans Sons Lescher & Webb, Ltd.
Jackson, E. E.
Mumford, G. S., & Sons
Solazzi

LITHIA SALTS

British Drug Houses, Ltd., The
Macfarlan, J. F., & Co.
May & Baker, Ltd.

LOOFAHS

Internl. Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

LOZENGES

Ayrton, Saunders & Co., Ltd.
Denoual, Jules & Co.
Guest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raines & Co.
Standard Tablet & Pill Co., Ltd.
Warriek Bros., Ltd.

MACHINERY, PHARMACAL

Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Comet Chemical Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Lister, R. A., & Co., Ltd.
Pindar J. W., & Co.
Stokes, F. J., Machine Co.
Wilkinson, S. W., & Co.

MAGNESIA AND ITS PREPS.

British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.
Henry, T. & W.
Howards & Sons Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

MALT EXTRACT & PREPS.

Boulton Maoro, Ltd.
British Diamalt Co., Ltd.
British Drug Houses, Ltd., The
Burroughs Wellcome & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Paine & Co., Ltd.

MANICURE CASES

Hovenden, R., & Sons, Ltd.
Schutze, F., & Co., Ltd.

MARKING INK

John Bond ("Crystal Palace")

MEASURES, GRADUATED

Bush, Henry W., & Co., Ltd.

MEAT EXTRACTS

Armour & Co., Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

MERCURIALS

Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

METAL GOODS

Betts & Co., Ltd.
Eley Bros., Ltd.

METHYLATED SPIRIT

Burrough, J., Ltd.
Macnair, A., & Co.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES

Raphaels, Ltd.

MINERAL WATERS, SALTS

Apollinaris Co., Ltd.
Hughes, E., Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)
Vittel

MIXERS AND SIFTERS

Comet Chemical Co., Ltd.
Gardner, Wm., & Sons (Gloucester), Ltd.

MUSTARD PLASTER

Ruehl, Julius

NIGHT-LIGHTS

Prescott & Co.

OINTMENTS

Blackie, Robert
Burgees, E.
Cartwright, W. B., Ltd.
Cox, Arthur H., & Co.
Oldfield, Pattinson & Co.
Peat Products (Sphagnol), Ltd.
Smith, Maurice
Zimmermann, Chas., & Co.

OILS, ESSENTIAL

Allen, Stafford & Sons Ltd.
Alliance Drug & Chemical Co.
Boake, A., Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
London Essence Co.
Poppelreuter, W.
Ransom, W., & Son
Schimmel & Co.
Spurway & Cie., Ltd.
Stevenson & Howell, Ltd.
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, Chas., & Co.

OILS, MINERAL, FATTY

Allen, Stafford & Sons, Ltd.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Stern Sonneborn Oil Co., Ltd.

OLIVE OIL

Goodall, Backhouse & Co.
Sparks, White & Co., Ltd.
Varaldi, F.

OPTICAL GOODS

Anglo-American Optical Co.
Botwright & Grey
Darton, F., & Co.
Lowy, Sandro
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.
Raphael's, Ltd.

OPTICAL TUITION

British Optical Institute, Ltd.
Spectacle Makers' Company.

ORANGE QUININE WINE

Hobson, Joseph, & Son
Melrose-Drover Co., Ltd.
Miller, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

ORGANOTHERAPY**PRODUCTS**

British Organotherapy Co., Ltd.
Martindale, W.

OTTO OF ROSE

Spurway & Cie., Ltd.

OTTO OF ROSE (SYNTH.)

Bush, W. J., & Co., Ltd.
Kerfoot, Thos., & Co.
Warriek Bros. Ltd.
Wright, Layman & Umney, Ltd.

OXYGEN BATHS

Wright & Co.

PACKED GOODS

Allen & Hanburys, Ltd.
Baies Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Maoro, Ltd.
Brook, Parker & Co., Ltd.
Cartwright, W. B., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy Thos., & Co.
Cupal, Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Harker, O. R., Stagg & Morgaa
Lofthouse & Saltmer, Ltd.
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Standard Tablet & Pill Co., Ltd.
Van Esen, James, & Co., Ltd.

PALATINOIDS

Oppenheimer, Son & Co., Ltd.

PAPER HANDKERCHIEFS

Powell, J. T., & Co.

PARAFFINUM LIQUIDUM

Schliemann Oil & Ceresine Co.

PASTILLES

Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Kerfoot, Thomas, & Co.
Taverner & Sons, Ltd.
Valda Pastilles
Warriek Bros., Ltd.

PATENT AGENTS

Barker, R. W.
Newnam, Browne & Co.

PEPPERMINT OIL

Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.

PERFUME MATERIALS

Boehringer, C. F., & Soehne
 Bush, W. J., & Co., Ltd.
 Kerfoot, T., & Co.
 Neef M., & Co., Sucors.
 Schimmel & Co.
 Varaldi, F.
 Wright, Layman & Umney, Ltd
 Zimmermann, Chas., & Co.

PERFUMES

Allen & Hanburys, Ltd.
 Baiss Bros. & Stevenson, Ltd.
 BARNETTS Perfumery, Ltd.
 Bronnley, H., & Co., Ltd.
 Bush, W. J., & Co., Ltd.
 Christy T., & Co.
 Evans Sons Lescher & Webb Ltd
 John Strange Winter
 Kerfoot, T., & Co.
 Lescol Perfumery Co.
 McCracken, J. & R.
 Prichard & Constance, Ltd.
 Queloh, H. C., & Co.
 Rivers, Hill & Co., Ltd.
 Sonthall Bros. & Barolay, Ltd.
 Spurway & Cie., Ltd.
 Warriock Bros., Ltd.
 West, T., & Son
 Wolff, F., & Sohn

PESSARIES (SOLUBLE)

Burge, Warren & Ridgley, Ltd.
 Rendell, W. J.

PETROLEUM JELLY

Chesebrough Manfg. Co.
 Gardner & Andrew
 Schliemann's Oil & Ceresine Co.
 Stern, Sonneborn Oil Co., Ltd.

PHOSPHORUS AND PREPS.

May & Baker, Ltd.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne
 Johnson & Sons (Mfg. Chts.), Ltd

PHOTO. GOODS

Ayrton, Saunders & Co., Ltd.
 Barolay & Sons, Ltd.
 Barronghe Wellcome & Co.
 Evans Sons Lescher & Webb, Ltd
 Express Developing Co.
 Ilford Ltd.
 Kent, G. B., & Sons, Ltd.
 Lennon, Ltd.
 May, Roberts & Co., Ltd.
 Newbery, F., & Sons, Ltd.
 Rajar, Ltd.

PHOTO. POSTCARDS, ETC.

Rajar, Ltd.

PILL MAKERS

Cox, A. H., & Co., Ltd.
 Davies, Sons & Co.
 Howard Lloyd & Co., Ltd.
 Standard Tablet & Pill Co., Ltd.

PLASTERS

Allocock Manfg. Co.
 Berliner, Arthur
 Dalmas, A. de St., & Co.
 Galen Mfg. Co., Ltd.
 Leslie, Ltd.

PLATE POWDER

Lees, A., & Co.

PLEATED PAPER

Darter, Wilkinson & Co.
 Smith Bros. & Co.

POLISHES (VARIOUS)

Bradley & Bourdas
 Oakley, J., & Sons, Ltd.

POSTAL BOXES

Robinson & Sons, Ltd.

POWDER PAPER

Prichard & Constance, Ltd.

PRESS CUTTINGS

Central News

PRINTERS

Clyde Press
 Ford, Shapland & Co.
 Harrison & Waide
 Suttley & Silverlock, Ltd.
 Townsend, J., & Sons

PROPRIETARY ARTICLES

Anglo-American Pharm. Co.
 Anglo-Indian Drug & Chem. Co.

PROPRIETARY ART.—cont.

Aplin & Barrett, Ltd.
 Ashton & Parsons, Ltd.
 Barclay & Sons, Ltd.
 Beecham, T.
 Bow's Liniment, Ltd.
 British Drug Houses, Ltd., The
 Burgess, E.
 Carnrick, G. W., Co.
 Chameleon Oil Co., Ltd.
 Christy, T., & Co.
 Coleman & Co., Ltd.
 Corbyn, Stacey & Co., Ltd.
 Crimson Cross Dispensary
 Cupal, Ltd.
 Cyona Co., Ltd.
 Daisy, Ltd.
 Davenport, J. T., Ltd.
 Demuth, R.
 Dunoon, Flockhart & Co.
 Escolent Compounds, Ltd.
 Edwards, W., & Son
 Evans Sons Lescher & Webb, Ltd
 Faulding, F. H., & Co.
 Fellows' Med. Manfg. Co.
 Fennings, Alfred
 Ferris & Co., Ltd.
 Fox & Co. (Liverpool), Ltd.
 Freeman's Chlorodyne, Ltd.
 Fulford, C. E., Ltd.
 Goodall, Backhouse & Co.
 Harrison, Geo. W.
 Henry, T. & W.
 Hommel's (Dr.) Hæmatogen
 Hughes, E. Griffiths
 Ichthyol Gesellschaft
 International Laboratories
 Kay Bros., Ltd.
 Kutnow, S., & C., Ltd.
 Mandall & Co., Ltd.
 Martindale, W.
 May, Roberts & Co., Ltd.
 Mergentheim Table's
 Newbery, F., & Sons, Ltd.
 Odol Chemical Works
 Oppenheimer, Son & Co., Ltd.
 Owbridge, W. T., Ltd.
 Phillips, Chas. H., Chem. Co.
 Phistol, Ltd.
 Pinex Co., Ltd.
 Poulton Co.
 Primer, J.
 Resinol Chemical Co.
 Riedel, J. D., Co.
 Rubinstein, Madame H.
 Sangers
 Schimmel & Co.
 Scott & Bowne, Ltd.
 Squire & Sons
 Standard Tablet & Pill Co., Ltd
 Thompson & Capper
 Tunbridge & Wright
 Urillao Manfg. Co.
 Valda Pastilles
 Wait-and-See Proprietary
 Warriock Brothers, Ltd.
 White, A. J., Ltd.
 Wilcox, Jozeau, & Co.
 Woodward, W., Ltd.
 Wright, Layman & Umney, Ltd.
 Zimmermann, C., & Co

PUFFS

Solport Bros.

PUMPS

Berkefeld Filter Co., Ltd.

QUININE AND SALTS

Alliance Drug & Chem. Co.
 Boehringer, C. F., & Soehne
 Buchler & Co.
 Corbyn, Stacey & Co., Ltd.
 Howards & Sons, Ltd.
 Pointet & Girard

RADIO-ACTIVE MINERALS

Harrington Bros., Ltd.

RAZOR STROPPER

Barclay & Sons, Ltd.

RENNET

Fullwood & Bland
 Oldfield, Pattinson & Co.

RESINS AND RESINOIDS

Allen, S., & Sons, Ltd
 Macfarlan, J. F., & Co.
 Morson, T., & Son
 Ransom, W., & Son
 Smith T. & H., Ltd.

RESPIRATORS

Zimmer & Co.

RIBBONS, CORDS, &c.

MacLennan, John, & Co.

RUBBER GOODS

Berliner, Arthur
 Burge, Warren & Ridgley, Ltd.
 Haywood, J. H., Ltd.
 Ingram, J. G., & Son
 Maw, S., Son & Sons
 Surgical Hosiery Co., Ltd.
 Tompkins, James, Ltd
 Warne, W., & Co., Ltd.
 X. L. Rubber Co.

RUBBER STAMPS

Richford, C. D.

SACCHARIN

Saccharin Corporation, Ltd.

SAMPLE CASES

Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPOININ

Field, C. W.

SCIENTIFIC APPARATUS

Reynolds & Branson, Ltd.
 Perken, Son & Co., Ltd.

SEA SALT

Tidman & Son, Ltd.

SEED-DRESSING

Hawker, Arthur E.
 Tomlinson & Hayward, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.
 Burroughs Wellcome & Co.
 Evans Sons Lescher & Webb, Ltd
 Parke, Davis & Co.
 Schimmel & Co.
 Wilcox, Jozeau & Co.

SHAMPOO POWDERS

Standard Tablet & Pill Co., Ltd.

SHARES

MoAdam & Tuckniss

SHEEP DIPS

Burt, Boulton & Hayward

SHEEP MEDICINES

Pettifer, Stephen, & Sons

SHELLAC

Kershaw, H. E., Ltd.

SHOP FITTING

Ayrton-Graham, Ltd.
 Cook, George
 Evans Sons Lescher & Webb, Ltd
 Grant, D.
 Josephs, Philip, & Sons, Ltd.
 Maw, S., Son & Sons
 Pernal & Sons, Ltd.
 Rudduck & Co.
 Sangers

SHOW STANDS

London and Colonial Manfg. Co.

SOAPS, TOILET, &c.

Allen & Hanburys, Ltd.
 Armour & Co., Ltd.
 Bell, John Hills & Lucas, Ltd.
 Bronnley, H., & Co., Ltd.
 Chesebrough Manfg. Co.
 Christy Thos., & Co.
 Cook, E., & Co., Ltd
 Eueryl, Ltd.
 Evans Sons Lescher & Webb, Ltd
 Fulford, C. E., Ltd.
 Harrison, G. W.
 Hovenden, R., & Sons, Ltd.
 John Strange Winter
 Lescol Perfumery Co.
 Margonal Co.
 Olival Anglo-Spanish Soap Co.
 Peats, A. & F., Ltd
 Peat Products (Sphagnol), Ltd.
 Price's Patent Candle Co.
 Resinol Chemical Co.
 Wolff, F., & Sohn
 Wright, Layman & Umney, Ltd.

SHOULDER STRAPS

Wood, Vincent

SODA FOUNTAINS

Flugel & Co.

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.
 Electrolytic Alkali Co., Ltd.
 Howards & Sons, Ltd.
 Mumford, G. S., & Sons

SOOTHERS

Newbery, F., & Sons, Ltd.
 Schutze, F., & Co., Ltd.

SPECTACLES

Botwright & Grey
 Darton, F., & Co.
 Maw, S., Son & Sons
 Nitsche & Gunther Opt. Co., Ltd
 Raphael's, Ltd.

SPICES

Goodall, Backhouse & Co.

SPIRIT OF WINE

Burrough, J., Ltd.
 Preston's Liverpool Distillery
 Co., Ltd.

SPONGES

Internl. Sponge Importers, Ltd.

SPRAYS

Burge, Warren & Ridgley, Ltd.
 Hovenden, R., & Sons, Ltd.
 Maw, S., Son & Sons
 Parke, Davis & Co.
 Sangers
 Toogood, Wm., Ltd.

SPRINKLER CORKS

Betts & Co., Ltd.

SPRUCE BEER

Hobson, Joseph, & Son

STARCH

Mumford, G. S., & Sons

STILLS

Bennett, Sons & Shears, Ltd.
 Stokes, F. J., Machine Co.

STOPPERS

Stipendum Stopper Co.

SUPPOSITORIES

Peat Products (Sphagnol), Ltd.

SURGICAL APPLIANCES AND DRESSINGS

Allen & Hanburys, Ltd.
 Bailey, W. H., & Son, Ltd.
 Berliner, Arthur
 Burroughs Wellcome & Co.
 Bush, H. W., & Co., Ltd.
 Dalmas, A. de St., & Co.
 Davis, John Morgan, & Sons
 Galen Manfg. Co. Ltd.
 Gimber, W., & Son
 Haynes, G., & Co.
 Haywood, J. H., Ltd.
 Liverpool Lint Co.
 Macfarlan, J. F., & Co.
 Martindale, W.
 Mason Bros. & Chapman
 Maw, S., Son & Sons
 Queloh, H. C., & Co.
 Reynolds & Branson, Ltd.
 Robinson & Sons, Ltd.
 Surgical Hosiery Co., Ltd.
 Taylor, W. G.
 Warne, W., & Co., Ltd.
 Wood, Vincent
 Woolley, J., Sons & Co., Ltd.

SYPHONS

Barnett & Foster
 Camwall, Ltd.
 Idris & Co., Ltd.
 Sharmar's Pat. Syphon Co., Ltd

SYRINGES

Bush, H. W., & Co., Ltd.

SYRUPS, MEDICINAL

Fellows' Med. Mfg. Co.

TABLE WATERS

Burrow, W. & J.

TABLET MACHINERY

Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper
Wilkinson, S. W., & Co.

TABLETS, COMPRESSED

Allen & Hanburys, Ltd.
Fishop, Alfred, Ltd.
British Drug Houses, Ltd. The
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co
Evans Sons Lescher & Webb, Ltd.
Howards & Sons, Ltd.
Howard Lloyd & Co., Ltd.
Johnson & Sons (Mfg. Chts.)
Martindale, W.
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Thompson & Capper
Wand Manfg. Co.
Wigglesworth & Co

"TABLOID" PRODUCTS

Burroughs Wellcome & Co.

TARTARIC ACID

British Drug Houses, Ltd., The
Boehringer, C. H., Sohn

TEA (TANNIN-LESS)

Sumner's Typhoo Tea, Ltd.

TEATS (I.R.)

Ingram, J. G., & Son

TIN BOX MAKERS

Goodall, Backhouse & Co.
Huntley, Boorne & Stevens
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.

TINCTURE PRESS

Lister, R. A., & Co., Ltd.

TOBACCO

Singleton & Cole, Ltd.

TOILET ARTICLES

Allen & Hanburys, Ltd.
Armour & Co., Ltd.

TOILET ARTICLES—cont.

Ayrton, Saunders & Co., Ltd.
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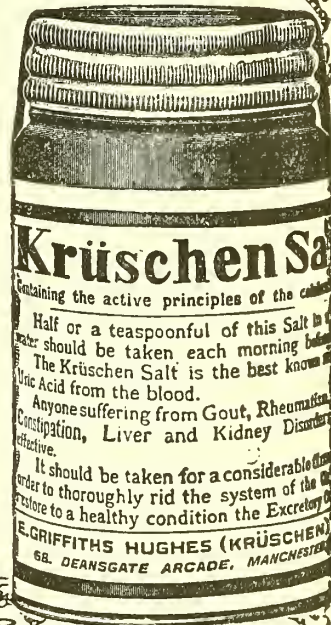
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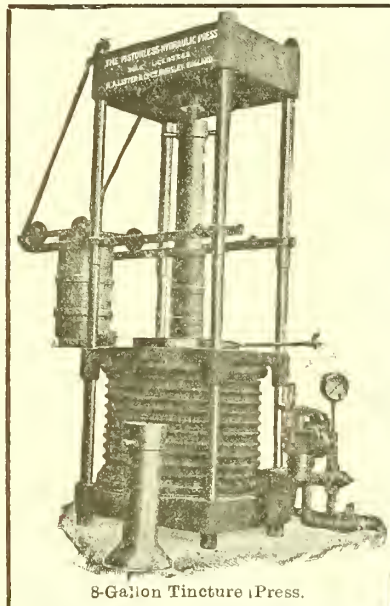
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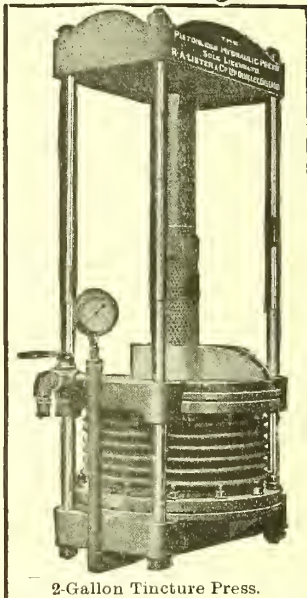
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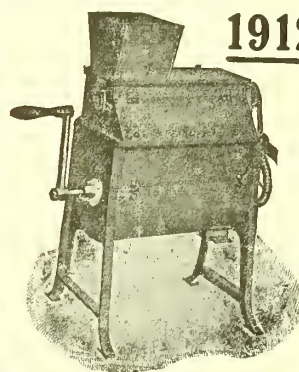
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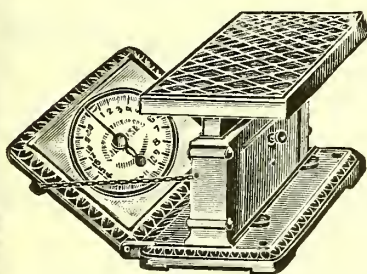
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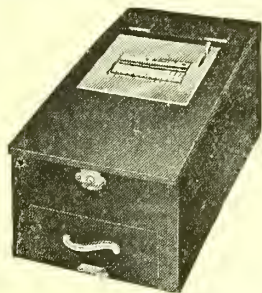


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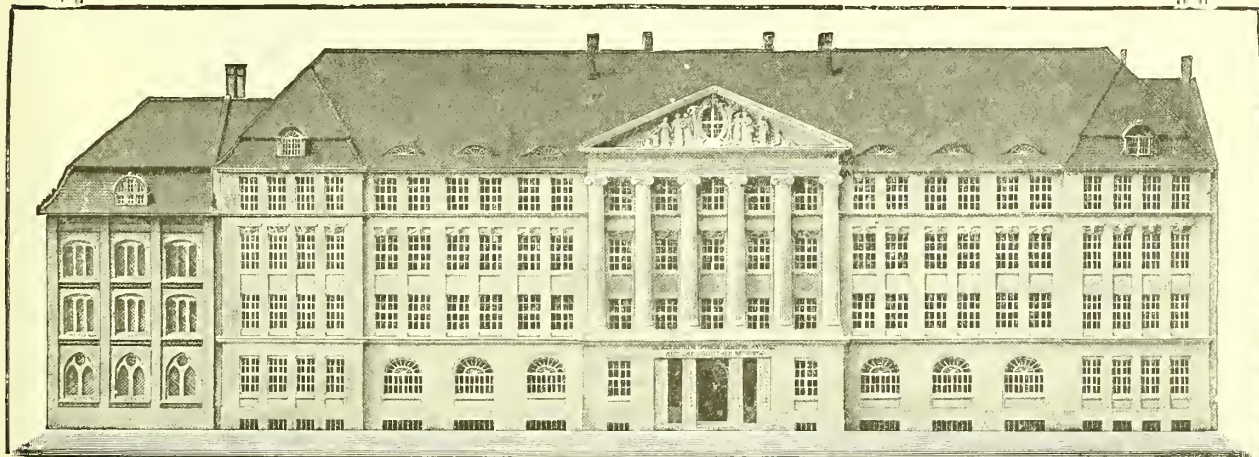
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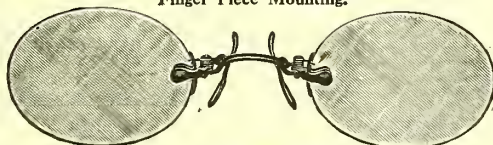
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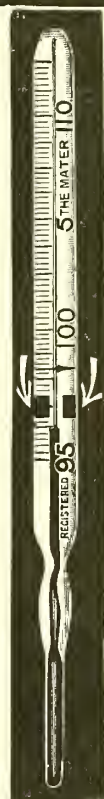
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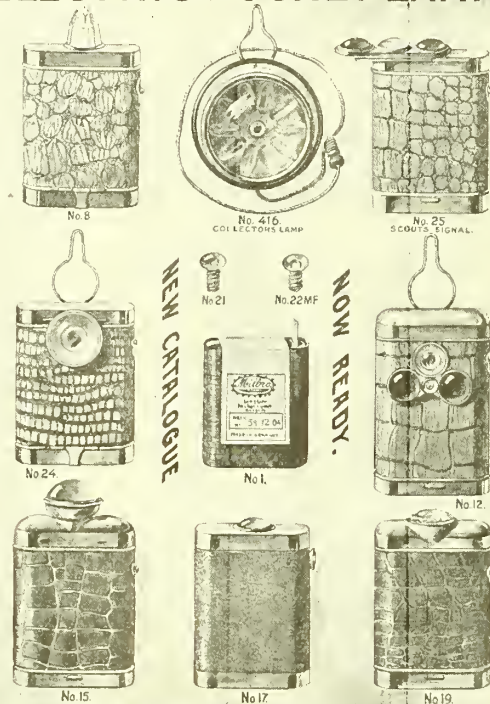
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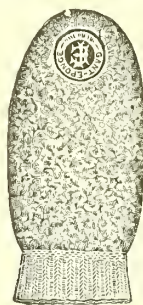
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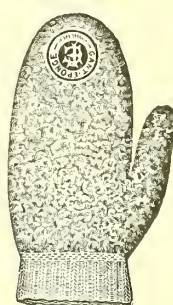
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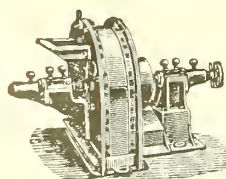
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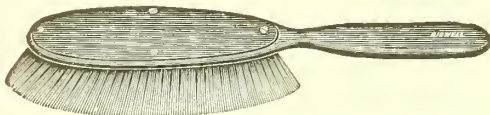
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The Popular American Antiseptic.

A non-toxic antiseptic of known and definite power, prepared in a form convenient for immediate use; of ready dilution, slightly, pleasant, and sufficiently powerful for all purposes of asepsis—these are advantages which Listerine embodies.

The success of Listerine is based upon merit, and the best advertisement of Listerine is—Listerine.

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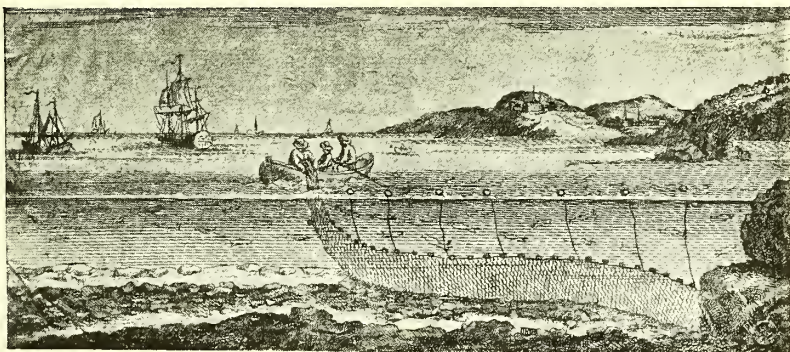
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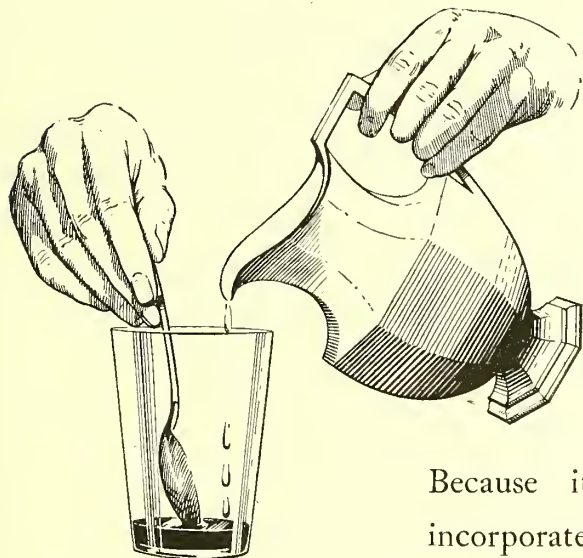
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COD LIVER OIL WITH MALT EXTRACT

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AND THE DEMAND THIS WINTER IS GREATER THAN EVER.

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A Weekly Journal of the Chemical and Drug Trades
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

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Minor Experiences.	Wills.

CHRISTMAS HOLIDAYS.

Advertisers will please note that all copy for advertisements to appear in THE CHEMIST AND DRUGGIST (white paper pages) of December 28 must be received at this office by Saturday, December 21, if a proof is required, but copy may be sent on Monday, December 23, if no proof is needed. We trust, however, that our friends will assist us as far as possible on this occasion by sending their instructions well in advance of these dates. The offices of THE CHEMIST AND DRUGGIST will be closed on Wednesday, December 25 (Christmas Day), but will be open from 9 until 11 A.M. on Thursday, December 26 (Boxing Day), for the reception of small advertisements for the Supplement. All advertisements received afterwards will be inserted in the issue of January 4, 1913.

SUMMARY OF THIS ISSUE.

The more notable items only are dealt with.

National Insurance Act.

The majority of doctors in England have voted against acceptance of the final terms (p. 40).

The Organisation Committee of the Pharmaceutical Society has now taken in hand application of the results of the Pharmaceutical Standing Committee's work. We describe fully what is being done in an article beginning on p. 50. For other notes on this matter see p. 39.

Every chemist in business is being supplied with a copy of the tariff of charges which is to be the basis of negotiation with Insurance Committees, and all are asked to authorise their local Association Secretaries to get their names put on the dispensing panel.

There is still a good deal of criticism of the main principle of the allowance for medicines, etc., and some of the regulations which we printed last week (p. 62).

It seems that there will be some nice jobs for pharmacists as inspectors of pharmacies (p. 39).

Articles and Communications.

An interesting new theory as to chemical reaction has been communicated to the Chemical Society (p. 44).

"X-rayser II," after some pertinent remarks about Insurance dispensing, comments on the sale of morphine and cocaine and about carbonyls (p. 47).

The C. & D. Diary, 1913, will be in the hands of the home subscribers early next week. Particulars in regard to its contents and announcements of interesting competitions are given on p. 49.

In a communication to the Pharmaceutical Society, Dr. W. H. Martindale discussed the active principles of digitalis, and how the extent of activity can be determined. He has devised a colour test to correspond in strength to the present physiological tests (p. 43).

News of the Week.

An interesting address on vaccines and serums is reported on p. 45.

For some Christmas holiday arrangements in London see p. 34.

Mr. C. A. Hill, B.Sc., is the new President of the Drug Club (p. 34).

Macaura, of Pulsocon notoriety, has been expelled from Prussia (p. 56).

A rare opportunity for somebody to acquire specimens of drugs and gums is referred to on p. 57.

The present condition of the German chemical industry is reviewed by our German correspondent (p. 56).

Mrs. Littlejohn, Mrs. Pimm, Mr. Robert Dawson, and Mr. H. G. Collins have been elected pharmaceutical annuitants (p. 44).

New regulations regarding infants' foods and proprietary medicines made under the Western Australia Health Act are printed in the Coloured Supplement.

The sale of laudanum has been commented upon in Ireland (p. 35), as well as in English Coroners' Courts (see Coloured Supplement).

Our News Columns (pp. 34-36) contain several notes on chemists' and other seasonable window-displays, and on p. 56 is a note on a new method of pharmaceutical publicity.

Eight legal actions are reported, among them a case deciding that it is an interdictable offence to put paraffin in branded soda-water bottles, and another with a traveller's restrictive agreement (p. 37).

Mr. John C. Unney concluded on Thursday his evidence before the Select Committee on Patent Medicines. The Committee spent about an hour with him *in camera*, while he explained why the Government chemist (like the B.M.A. analyst) missed an important essential ingredient in Woodward's Gripe Water. Mr. Hall, the originator of Hall's Wine, was examined after luncheon. Our report begins on p. 52.

Trade and Market Matters.

Alterations in values include an advance in Florentine orris, cannabis indica, ammonia sulphate, and lemon oil. Cod-liver oil and valerian are firmer. Menthol, shellac, and castor oil are lower. The last auction of the year consisted of first- and second-hand supplies (p. 57).

B

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

At Pontardawe, on December 6, the medicated-wine licence held by Mr. John Harris, of Gwauncaegurwen, was transferred to Mr. Idris Caredig Howell.

Mr. N. H. Martin, F.R.S.E., was one of the Newcastle Justices who convicted Knox, the engine-driver, which conviction has caused the unrest among the railwaymen in the North.

Burglars broke into the premises of Mr. J. Pillischer, optician, of 88 New Bond Street, London, W., during the week-end. The shop was cleared of all instruments, the loss amounting to about 1,000l.

Mr. T. J. Barratt, the managing director of A. & F. Pears, Ltd., was one of the leading purchasers of dolls at the "Evening News" Doll Exhibition on December 9. He gave eight guineas for one, and also carried off the two dolls which represented the Prince of Wales in a midshipman's uniform and Prince John as a sailor boy.

Paragraphs appeared in several London morning papers on Wednesday to the effect that lectures on bacteriology are to be given in the new year at the Pharmaceutical Society's lecture theatre, and that the Society is considering the addition of this subject to the syllabus of the examination for the diploma of pharmaceutical chemists.

A leakage of gas from a gas-main in Wrexham Street, Mold, caused a series of explosions of some violence last week. At the premises occupied by Mr. J. Wynn Williams, chemist and druggist, flames were found making their way behind the skirting board in the front sitting-room, but these were speedily subdued. No one was seriously injured.

The President of the Board of Trade has appointed Mr. F. C. Drake, representing the India Office, to be a member of the Advisory Committee to the Board of Trade on Commercial Intelligence, in place of Sir T. W. Holderness, K.C.S.I.; and Sir Algernon F. Firth, Bart., to be a member of the same Committee in place of Sir A. K. Rollit, who has resigned.

At the shopping-week window-dressing competition held recently at Clacton-on-Sea, Boots, Ltd., gained first and second prizes. Mr. W. Maskew, Ph.C., 26 Electric Parade, was awarded a second prize in a general competition, and was also highly commended in a class for novelties. Mr. W. Mann, pharmacist, 2 Pier Avenue, received a highly commended certificate for his display.

Tottenham Court Road, London, W., was on December 10 a very busy thoroughfare, the occasion being the judging of the shop-window displays for prizes offered by the National Cash Register Co. The street was bright with flags from end to end, and many of the windows exhibited original designs of great "drawing" power. The windows of the National Cash Register Co. represented Christmas subjects, one being a scene on the ice and the other a dining-room with Father Christmas cutting up the pudding.

The Drug Club.

The annual meeting of this Club was held in London on Tuesday, when Mr. Charles Alex. Hill, B.Sc., F.I.C., managing director of The British Drug Houses, Ltd., was elected President in succession to Mr. W. P. Evans (Liverpool), and Mr. Charles Dunn (Curling, Wyman & Co., Ltd.) was elected to succeed Mr. Hill in the vice-presidency. Mr. T. Edward Lescher was re-elected Secretary. The members dined together in the evening at "The Piccadilly."

Masonic.

W. Bro. H. C. Edwards, chemist and druggist, P.M. of Derwent Lodge No. 40, was invested at Brighton on December 7 as Provincial Grand Steward of Sussex.

Mr. Albert Henry Hale, chemist and druggist, 3 York Street, Broadstairs, has been appointed almoner and

charity representative for the Bradstow Lodge of Freemasons.

Christmas Holidays.

The following announcements respecting the closing for Christmas holidays of places of business connected with the drug-trade should be noted:

ALLEN & HANBURY, LTD.—The offices and works at Bethnal Green will be closed from Tuesday evening, December 24, until Monday, December 30. Small urgent orders can be executed during that time from Plough Court, 37 Lombard Street, E.C., and 7 Vere Street, W. Telegraphic address, "Vereburys, London," and telephone number 5437 Paddington, for use on Sundays, holidays, and after 6 P.M.

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N., will close on Christmas Day and Boxing Day.

BURROUGHS WELLCOME & CO. close their City warehouse and West-end showrooms on December 25 and 26.

THE CHEMIST AND DRUGGIST OFFICES, 42 Cannon Street, London, E.C., will be closed on Wednesday and Thursday, December 25 and 26. (See the note on the preceding page.)

S. MAW, SON & SONS, 7 to 12 Aldersgate Street, London, E.C., will close from 1 P.M. on Tuesday, December 24, until Friday, December 27.

F. NEWBURY & SONS, LTD., Charterhouse Square, London, E.C., will close on December 25 and 26, and for stocktaking on December 30 and 31.

THOMAS TYRER & CO., LTD., Stratford, E.—The Stirling Chemical-works will close from Tuesday evening, December 24, to Monday morning, December 30.

WRIGHT, LAYMAN & UMNEY, LTD., Southwark, S.E., intimate that they will close at 2 P.M. on Tuesday, December 24, for Christmas Day and Boxing Day. On Friday and Saturday, December 27 and 28, they will be closed for stocktaking, and will reopen on Monday, December 30.

Any other intimations of the same character should be sent to us by an early post.

Analysts' Affairs.

In Poplar all four drug-samples taken recently for analysis were found to be genuine.

In Bristol last quarter two samples each of glycerin and health-salts, and one each of camphorated oil, castor oil, and compound liquorice-powder were examined. All were genuine.

Contracts.

St. Faith's (Norwich) Guardians.—Mr. J. Cossey, chemist, Norwich, for trusses.

Walsall Town Council.—Imeson, Finch & Co. (1912), Ltd., for an annual supply of liquid disinfectant.

Yarmouth Town Council.—Mr. T. J. Woodcock, chemist, Yarmouth, for the supply of all drugs, medicines, and surgical appliances required at the Isolation Hospital during the ensuing year.

London County Council.—For annual supplies at estimated values: Chemicals, etc., F. W. Berk & Co., Ltd., 24l.; Burgoyne, Burbidges & Co., 33l.; Carless, Capel & Leonard, 9l.; Harrington Bros., Ltd., 51l.; Johnson & Sons, Manufacturing Chemists, Ltd., 58l.; Johnson, Matthey & Co., Ltd., 59l.; W. Martindale, 12l.; May & Baker, Ltd., 189l.; Willows, Francis, Butler & Thompson, Ltd., 87l. Disinfectants: Jeyes' Sanitary Compounds Co., Ltd., 111l.; the Standardised Disinfectants Co., Ltd., 14l.

Liverpool Notes.

The D.B.C. (Domestic Bazaar Co.), Lord Street, Liverpool, display a legend, "Lease sold"—it is rumoured, to Boots, Ltd., who have taken the premises next door, occupied by Messrs. Linscotts, jewellers. Boots' new premises at 38 and 38A Dale Street are now open, while at their London Road branch a mechanical electrical sign is attracting much attention. This shows a nurse, in uniform, pouring out a dose of medicine which has quite a tr. card. co. colour. The sign draws attention to the fact that prescriptions are dispensed.

The new incursions of Boots, Ltd., in Liverpool have spurred up local pharmacists. Messrs. Buddens, Ltd., London Road, have just had a new frontage put in their head shop in London Road. The woodwork is mahogany, and there are four rows of bevelled-glass shelves. The lighting arrangement consists of a row of six electric lamps with Holophane shades, these casting a soft light.

Messrs. Banner, Ltd., have had the shop-front at their Byron Street pharmacy modernised. They are displaying an encased glass sign, the top of which is surmounted with a crown and proclaiming that they are, "By Government appointment, official dispensers of all doctors' prescriptions."

Manchester Notes.

Mr. Geo. S. Woolley and Mr. Hermann Woolley are each contributing 25*l.* to the fund for extending the Salford Royal Hospital.

Mr. Dobson, chemist, 555 Rochdale Road, Manchester, is running a series of smart advertisements relating to his rheumatic tablets in the local Press.

The large drapery stores are making very big shows of perfumery and brushware for Christmas. Chemists do not seem to be making such large displays of Christmas goods as in years past.

Mr. J. J. Wilson, pharmacist, Oxford Road, Manchester, is showing an effective device in his window to attract attention to his dyspepsia-cure. This consists of a black bucket, with holes in the side covered with red paper, lighted from the inside by electric light.

Fog has created quite a demand for lung-lozenges, chest-protectors, and hot-water bottles. One South Manchester chemist placed a 40-lb. jar of chest and lung tablets in his window, with a large showcard stating "They defy fog and cold. Try them. Only 2*d.* ounce."

It is anticipated that most of the chemists in Manchester will avail themselves of the opportunity of keeping open all day on December 18 by posting a notice in the shop stating they will be closed on Boxing Day at 1 p.m. The regular closing-day must be reverted to the following week, the Manchester authorities having issued a statement to that effect.

From Various Courts.

At Bootle last week, three lads, named Wm. Ratford, Geo. Baden Davies, and John Major, were ordered to be birched for stealing sweets to the value of 1*s.* from the pharmacy of Mr. Harold Wyatt, Ph.C., 233 Stanley Road, Bootle, on November 19.

At the County of London Sessions on December 6, Isaac Silverman (23), tailor, was sentenced to six months' hard labour and recommended for deportation for stealing a barrel of olive oil, value 7*l.*, belonging to Messrs. Potter & Clarke, Ltd., wholesale drug-merchants, Artillery Lane, London, E.C. Chas. Geo. Nye (26), watchman, who pleaded guilty to a similar charge, was remanded in custody until the next Sessions.

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

The stock-in-trade of Mr. Thomas J. Moran, registered druggist, Carrick-on-Suir, was last week disposed of by public auction in Dublin.

Mr. J. J. Cole, the Medical Hall, Cavan, has obtained the contract for the supply of medicines and medical appliances to the Cavan County Infirmary next year.

Mr. J. Irvine, R.D., who has opened a new Medical Hall in Limavady, co. Derry, was formerly with Messrs. Baxter, Ltd., Ballymoney, and Messrs. Connor & Son, Newry.

Messrs. A. D. L. Murray & Co., Ltd., chemists, Grosvenor Road, Belfast, have had their shop-front entirely remodelled. The dispensing department is in charge of Mr. R. Mulligan, Ph.C.

Convicted of attempting to poison by strychnine her son-in-law, Mary Navey, a middle-aged woman, was, at Ulster Assizes on December 5, sentenced by Mr. Justice Wright to five years' penal servitude.

Mr. Samuel Bonnar (Messrs. Bonnar & Henderson, druggists, Wellington Street) has been appointed to represent the Urban Council of Ballymena (of which he is a member) on the Board of Governors of the Ballymena Academy.

At the annual meeting of the Windsor Ward Committee of the Belfast Citizens' Association, Mr. D. W. Elliott, Ph.C., Shaftesbury Square, gave an account of his year's stewardship as a member of the Poor-law Board for the ward.

Sir Wm. Baxter, J.P., Coleraine, President of the Pharmaceutical Society of Ireland, was one of the guests invited by the Ulster Committee of the Proportional Representation Society of Ireland to meet Earl Grey at luncheon in Belfast on December 7.

Daniel Boylan, the man who smashed the plate-glass window of the pharmacy of Mr. W. J. Meredith, Main Street, Tanderagee, co. Armagh, last month, pleaded guilty at the Assizes on December 6, and was sentenced to nine months' imprisonment with hard labour.

Mr. J. H. Totten, analyst, in his quarterly report to the Belfast Corporation, reported a sample of cream of tartar as adulterated with at least 0.004 per cent. of lead. He explained how the chemical is made, and referred to the English Local Government Board's report by Dr. A. H. J. McFadden on the limits of impurity.

At the Munster Winter Assizes in Cork on December 7, a farmer named Burke was charged with the manslaughter of John Sullivan. The farmer, it appears, is also a bone-setter, and it was alleged that his negligence in treating Sullivan, after an injury to his leg, had caused blood-poisoning and death. Burke was acquitted, the Judge remarking that it would not be a great loss to humanity if prisoner attended to his own business.

At the Munster Winter Assizes in Cork on December 7, three men were charged with conspiracy to obtain money by false pretences. The prisoners, one of whom was a medical student, held themselves out to be medical men and qualified dentists, and obtained large sums of money from their victims. The prisoners were found guilty, and two of them were sentenced to nine months' imprisonment. The medical student, whom the jury recommended to mercy, was discharged.

At the Ulster Winter Assizes, Londonderry, on December 5, Catherine Quigley was charged with having sworn a false information against her husband before Mr. Thomas Hanna, J.P., registered druggist, Main Street, Carrickmacross, on July 5, and with having committed perjury at the Petty Sessions before him on July 15. Mr. Hanna was the principal witness for the prosecution, at the close of which prisoner pleaded guilty, and as she had been four weeks in custody, the Judge allowed her out to come up for judgment when called on.

The Sale of Laudanum.

During the hearing of a prosecution brought by the Food and Drugs Inspector at Portlengone (co. Antrim) Petty Sessions on Friday, against a grocer on two summonses for refusing to sell sweet spirit of nitre and butter for analysis by the public analyst, the Inspector mentioned that he saw a large bottle with laudanum on a shelf in the defendant's shop when he entered. The Stipendiary asked if laudanum is allowed to be sold in a general sort of way in the country. The Inspector said it is not legal to sell it at these shops. The Stipendiary said he thought it was only chemists who were allowed to sell it. The Chairman of the Bench stated that nearly all shops in the country kept it for the convenience of farmers, who used it for horses' or cattle ailments. The Stipendiary said that that was quite a surprise to him. The Inspector swore that the defendant's daughter told him the laudanum was 2*d.* per oz. He asked for 6 oz., and she consulted her father, who was in the kitchen. When she returned she told him it was not for sale, and refused to sell it. She also refused to sell him sweet spirit of nitre and butter for analysis. The Magistrates fined defendant 2*s.* 6*d.* on each of the two summonses, with costs.

IN ANTICIPATION of increased dispensing, a pharmacist in the Thames Valley has had painted upon his premises "Dispenser under the Pharmacy and Insurance Acts."

"NOTES ON THE ESSENTIAL OILS, including an Account of the Methods and Materials of Perfumery," by Mr. H. F. Slack, pharmacist, Nottingham, appears in this month's "Knowledge."

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Mr. John Beath, chemist and druggist, Main Street, Thornton, has removed to more commodious premises.

Mr. Robert S. Ramsay, chemist and druggist, Auchterderran, has been re-elected treasurer of the Auchterderran Golf Club.

Claims against the late James Russell, or his firm of D. Russell & Son, chemists, 111 Nethergate, Dundee (of which he was sole partner), are to be lodged with Mr. D. W. Logie, solicitor, 20 Murray Place, Stirling.

Edinburgh.

Dr. J. W. Seiter, chemist and druggist, has opened a third pharmacy in the city, the new venture being situated at No. 3 Carnegie Street.

Several chemists have started distributing their calendars for 1913, and most of these souvenirs are well worth the expense and trouble lavished on them.

Messrs. Davidson & Co., chemists and druggists, Tollcross, etc., are fitting a new pharmacy in Lothian Road, opposite the side-entrance to the Caledonian Station.

Edinburgh Pharmacy and Bonnyrigg Wednesday footballers played a Wednesday League match at Bonnyrigg on December 4, the latter beating the former by 5 goals to 1.

Mr. A. A. Williamson, pharmacist, Leith Hospital, who has for some years acted as assistant in the x-ray department, has been promoted by the Board of Managers to the full charge of the installation.

Glasgow and the West.

The local wholesale sundries houses report heavy Christmas trade. Photographic houses also are benefiting. Folding cameras are specially in demand for Christmas gifts.

The first smoking-concert of the Govan Pharmacy Athletic Club was held in the Lansdowne Restaurant, Glasgow, on Tuesday, December 10. Mr. Tom MacKinnon presided, and there was a large attendance.

In connection with the Macnaught Brothers' failure application has been made to the Court of Session to have it declared that all right and interest in the estate of Mrs. Jane Macnaught (mother of the bankrupt, A. H. Macnaught), which belongs to the bankrupt, is transferred to and vested in the trustee.

Chemists should be careful to have security for goods supplied on approval unless personally acquainted with purchasers. Former years at this season have called forth unscrupulous persons (who give a good address) requesting a selection of goods on approval. Goods and customer then disappear. Moral: "cash down."

The Glasgow Corporation have given notice that during Christmas and New Year weeks the closing order will not be strictly enforced, although admitting they have no power to alter the law. Should assistants receive a full day from their employers in lieu of a half-day during the two weeks the Local Authority will not interfere.

Bro. John S. Young (agent in Scotland for Messrs. F. C. Calvert & Co., Manchester) was installed R.W.M. of Lodge "Thistle and Rose" No. 73, on Monday evening, December 9. The installation was held in the Freemasons' Hall, Berkeley Street, Glasgow, W., and after the ceremony the Lodge was called to harmony, when the usual loyal and Masonic toasts were proposed and a musical programme was gone through. There was a large attendance of members and visiting brethren.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

A COCAINE SCANDAL is reported from Lyons, where four pharmacists are to be prosecuted for supplying cocaine without prescriptions. It appears that some members of the *demi-monde* were addicted to taking the drug, which

resulted in frequent violent and distressing scenes in the resorts they frequented. A set of young men of the town had also developed a craving for the alkaloid. It was obtained at 3f. (2s. 6d.) per gram, being mixed with 50 per cent. of powdered sugar or menthol.

COST OF INSPECTION.—Chapter 73 of the 1913 Budget of the Department of Agriculture, which M. Métin has placed upon the table of the Chamber of Deputies, contains a reference to the Corps of Inspection appointed under the Anti-Adulteration Act, 1905. The Budget Committee proposes to form a body of fifty experts to operate in the departments, and a credit of 3,000*fr.* is proposed to meet this new creation. The present system of taking samples by the police is not considered satisfactory. It is mentioned incidentally that most grocers are liable to a double inspection-tax—4*fr.* for drugs and 3*fr.* for mineral waters. The committee considers this excessive, and proposes that the amount should be reduced to 2*fr.*, which would produce about 1,600,000*fr.* (64,000*l.*) per annum. Pharmacists pay a tax of 6*fr.* per annum for the inspection, and it is proposed to maintain it at this amount.

THE ANTI-ADULTERATION ACT of 1905 continues to be revised and extended. Its latest development, the "Law of July 12, 1912," modifies a few clauses of the original Act, as well as the law of 1907 on the sugaring and watering of wines. Among the clauses particularly affecting pharmacists are those punishing the exhibition, offer, storage, advertisement, or sale of products for the adulteration of aliments, beverages, etc. A paragraph has been added making it a special offence to sell or stock "products for the preparation or preservation of beverages not bearing a label stating the elements entering into their composition, and the proportion of these elements of which the use is only legally tolerated in limited doses." Another new paragraph imposes a fine of from 4*fr.* to 20*fr.* on any person obstructing inspectors in the execution of their duty, this fine being independent of the punishment provided by Article 209 of the Penal Code.

THE ILLEGAL PRACTICE OF MEDICINE for which M. Charles Desoignes was fined 20*fr.* at a Paris police-court last week consisted of advertising and preparing "a radical cure for rheumatism, gout, and gravel." A pharmacist who retailed the preparation was fined the same sum, but gets off under the First Offenders Act. A prosecution for illegal practice of pharmacy was recently instituted against M. Merle, a non-pharmacist, who advertised and sold a "Fortifiant Récamier" and "Lotion 101." The defence made an appeal to the Court to decide that these articles were not medicaments. The Judges of the Court of Cassation held that to decide whether an object is or is not a medicament is outside the competence of the magistracy. The Court had only to accept the views of the expert nominated by its authority to examine the liquids and the claim made by the defendant himself as to the remedial or beneficial effect of his preparations. The "Fortifiant" contained cherry-laurel water, and the lotion was an astringent collyrium containing a mydriatic of the atropine group. Both preparations thus contained poisonous substances, and both had been offered as curative.

For other News of the Week see the Coloured Supplement.

GAZETTE.

Partnership Dissolved.

SPARKS, H. E., and DENSHAM, F., Mitre Street, Aldgate, London, and Dock View Road, Barry, wholesale druggists, under the style of Sparks, Treharne & Densham.

From the "Edinburgh Gazette."

Creditors of the late Dr. Andrew Wilson, F.R.S.E., lecturer, 110 Gilmore Place, Edinburgh, will meet at 29 Alva Street, Edinburgh, on December 19.

Creditors of George Christie, chemist and druggist, 26 Haymarket Terrace, Edinburgh (who has granted a trust deed), are to communicate with Mr. Alexander Young, solicitor, 9 Albany Street, Edinburgh.

LEGAL REPORTS.

TRADE LAW.

Veterinary Surgeons Act.—At Saxmundham on December 5, Edgar S. Leggett was summoned by the Royal College of Veterinary Surgeons, and fined 10*l.*, including costs, for infringement of the Act by using a business-card describing himself as "E. S. Leggett, late Augur, unlicensed veterinary surgeon."

Rumsey's Powder.—Judgment in the action *Breese v. Lloyd (C. & D., November 16, index folio 740)*, respecting the sale of a lice-powder, was given by Judge Moss at the Carnarvon County Court on December 4. Plaintiff claimed a declaration that defendant was not entitled to manufacture "Rumsey & Co.'s lice-powder" to the prejudice of her property, together with an injunction and an account of sales. His Honour, in his judgment, declared that defendant did not take advantage of his knowledge of the secret recipe to manufacture a powder which was a colourable imitation of the original, and accordingly gave judgment for defendant, but ordered that plaintiff should have the 6*s.* paid into Court. As he considered defendant had in a measure contributed to the action, he ordered each party to pay its own costs.

Dismissal without Notice.—The case of *Searle v. Goldhill*, heard by Mr. Registrar Wild in the City of London Court on December 10, dealt with the recurring employees' difficulty of dismissal without notice. The plaintiff, a girl employed by Messrs. Goldhill & Sons, sponge merchants, 17 Houndsditch, E.C., sued them for 1*l.*, of which 10*s.* was for a week's wages and 10*s.* in lieu of notice on November 6, on the ground that she had wilfully misbehaved herself. For the defence, it was explained that on October 25 all the girls in the workroom received a week's notice because of complaints as to larking, and they were told that they would be taken on again if their conduct for the week was approved by the forewoman. Larking took place, and plaintiff was dismissed. The Registrar, in giving judgment, said a master under certain circumstances is entitled to dismiss a servant at once. If workpeople treated those in authority in the way heard of in this case, no master could carry on business. Servants must not think because they are employed by the week, and entitled to a week's notice, that they can do as they like. A servant or clerk can be dismissed at once if he do anything detrimental to the business of the employer. Judgment for the defendants beyond 4*s. 8d.* which had been paid into court by them for the time that the girl actually worked.

Traveller's Restrictive Agreement.—In the case of *Sutcliffe & Bingham, Ltd., v. Holwall*, heard by Mr. Justice Eve in the Chancery Division on December 6, Mr. Manning, for the plaintiffs, moved for an injunction to restrain the defendant from breaking an agreement with the plaintiffs, manufacturing chemists, Manchester. He said his clients make a speciality of lemon cheese. The defendant had been for some time in their employ, and entered into an agreement in May 1912 to act as their traveller for a certain mapped-out area comprising a part of London and suburbs. Clause 6 was in effect to restrain him within twelve months of the determination of the appointment from soliciting or being interested in orders for lemon cheese or goods which might subsequently be added to the list, in the district in which he had been accustomed to travel on plaintiffs' behalf. He had since entered the employment of a rival firm, and had committed a breach of the agreement not to travel in the restricted area. Mr. Church, on behalf of the defendant, urged that the covenant was in restraint of trade, while the word "London" in the agreement must be considered strictly, and could not be given a vague interpretation. His Lordship said *prima facie* there had been a breach of the agreement, in that the defendant had solicited orders within the specified district. Plaintiffs were entitled to an injunction until judgment or further order, but not to extend beyond August 31 next.

Gum Kauri Contract.—In the City of London Court on December 6, before Judge Lumley Smith, K.C., Messrs. Henry Miller & Co., Trinity Chambers, Trinity Square, claimed 44*l. 12s.* against Blyth, Green, Jourdain & Co., Ltd., 41 Eastcheap, 32*l.* being 10*l.* per ton difference in value of 3 tons 4 cwt. of gum kauri delivered under contract by defendants, but of a different grade and mark from that contracted for, and twelve guineas for loss of time, inconvenience, and expense; or, in the alternative, damages for breach of contract. Plaintiff (Mr. Miller) said he did not think the Court would be able to proceed with the case as the defendants had obtained in the High Court a writ of certiorari removing the case from the City of London Court to the Royal Courts of Justice.—Mr. Cassie Holden,

who appeared for the defendants, said they were not going on with that writ of certiorari. It had not been served on that Court.—Judge Lumley Smith: The plaintiff has served it upon me here. There is an old saying that you cannot put your hand to the plough and then draw back. You have chosen to take out the writ of certiorari, and then you abandon it. Of course, the plaintiff is not ready to go on now.—Plaintiff said that the defendants knew he would not follow the case if it went to the High Court, for the sake of 40*l.*—Mr. Holden thought that the Judge could go on with the case in spite of the writ of certiorari having been obtained, as it was not served.—Judge Lumley Smith said the next thing that would happen would be an application to commit him for contempt of the High Court, and he did not know why he should run that risk. He adjourned the case *sine die*.—Plaintiff asked for his costs, and said his time was worth a guinea an hour. The Judge said he would reserve those.

A Pharmacy Act Case Postponed.—In the Shoreditch County Court on December 12, before Judge Cluer, the Council of the Pharmaceutical Society of Great Britain sued Mr. J. E. Houseman, 19 Pitfield Street, Hoxton, to recover 5*l.*, a penalty incurred by the defendant on September 14 through selling white precipitate and belladonna plaster. Mr. A. E. Robinson, for the defence, said that on November 21, at a time when he had all his witnesses in Court in perfect health, the case was adjourned for want of time. He now produced a certificate signed by a doctor in Wimpole Street, stating that Mr. W. E. Carlton was suffering from a skin complaint, and had been ordered to Brighton. That gentleman was the certificated chemist who was concerned in the matter, and was his principal witness. Judge Cluer: But why keep the matter hanging on? Mr. Robinson: I want to prove that he was in the shop and sold the stuff, and that there was no breach; and if I make that out I have proved my defence, I take it; therefore I cannot risk going on without him. Judge Cluer: Do you say he actually sold the stuff? Mr. Robinson: No; but I say he was the certificated gentleman who was present, and it was sold under his supervision. We have two certificated gentlemen at this shop, so that if one is out at lunch there is always one present to see after things. There are Mr. Evans and Mr. Carlton. Judge Cluer: If you want to adjourn you must pay their costs. Mr. Robinson: Directly I heard of this my clerk telephoned to them, and I suggest they should have stopped their witnesses. I did not anticipate any obstacle to my application, but if your Honour says I must pay costs, I can do nothing else, as I must have Mr. Carlton.—Judge Cluer then adjourned the case on the terms that the defendant paid the costs thrown away.

Liability for Carriage.—In the City of London Court on December 5, before Judge Lumley Smith, K.C., Davies Turner & Co., Ltd., forwarding agents, claimed 3*l. 12s. 6d.* from L. Lumley & Co., Ltd., America Square, for the carriage of goods (water purifiers). It was explained that 3*l. 5s.* represented freight and charges on two cases of goods from Philadelphia, shipped *via* New York, 2*s. 6d.* of this being their agency charges. For the defence it was stated that the defendants had never instructed the plaintiffs to act for them, and it was for the plaintiffs to show that they had any authority from the defendants to do the work sued for. The defendants bought the goods in New York on the terms that they should be delivered to their warehouse free, and the people from whom they bought employed the plaintiffs in Philadelphia to ship the goods. The reply to this was that plaintiffs received instructions from their Philadelphia house to convey the goods to the defendants, and they were instructed to collect the charges and not to deliver the goods until they had the money. His Honour said it seemed to him that the defendants were liable to pay the freight, to which defendants' representative replied that might probably be so as between themselves and Messrs. Forbes in Philadelphia, who had sent them the goods. The plaintiffs were merely the agents for Messrs. Forbes. Judge Lumley Smith said that was not business. Messrs. Forbes seemed to have told the plaintiffs to collect the charges. The plaintiffs should have held the goods until they got their money. It seemed to him that there was an implied contract on the plaintiffs giving up the goods that the defendants would pay the charges. He thought the plaintiffs were entitled to be paid, and ultimately gave judgment for them for 2*l. 8s.*, and costs.

Misuse of Aerated-water Bottles.—In the *C. & D.*, March 2, 1912, index folio 319, we reported the decision of Sheriff Guy, Edinburgh, to the effect that a drysalter who put paraffin oil into aerated-water bottles supplied by customers committed no offence. The decision was subsequently adversely criticised in the *C. & D.*, March 23, index folio 457. The case, *Wilson v. Shepherd*, came before the

Second Division of the Court of Session, Edinburgh, last week, in the way of appeal. For Wilson (the appellant) application was made to have Shepherd interdicted from putting paraffin oil or other liquid into and issuing or sending out to his customers or the public, or otherwise using for his own purposes, bottles lent by the plaintiff to his customers, and marked "James Wilson, Edinburgh." It was explained that on October 15, 1909, Shepherd wrote undertaking not to repeat the offence. The plaintiff contended that the use by the defendant of the bottles was illegal, the bottles being seriously damaged for future use as aerated-water bottles, and when they reverted to the possession of the plaintiff damage was done to other bottles in the wash-tub. The defender said it was the custom in the trade for shopkeepers who supply aerated waters to charge customers for the bottles, which thus became the property of the purchasers. He denied that he had made improper and illegal use of the plaintiff's property against the plaintiff's wishes, and explained that when he wrote the letter on October 15, 1909, he was ill and upset in consequence of threats of proceedings. The letter, he maintained, was null and void in respect that it was in restraint of trade. The Court now recalled the judgment of Sheriff-Substitute Guy, and remitted the case back for a proof of parties' averments, their Lordships holding that the case was one for inquiry.

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

ISLE OF THANET MINERAL-WATER CO., LTD. (P.C.).—Capital 2,000*l.* Objects: To take over the business of a mineral-water manufacturer carried on by Sir James H. Renals, Bart., at The Malthouse, Crowhill, Broadstairs.

O'CONNELL & CO., LTD. (P.C.).—Registered in Dublin. Capital 100*l.* Objects: To carry on the business of chemists and druggists, etc. The first directors are T. O'Connell and Mrs. M. O'Connell. R.O., Main Street, Kanturk, co. Cork.

SHELLEY'S DRUG-STORES, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To take over the business of Shelley's Drug-stores, 36 Caldmore and 69 Milton Street, Walsall. The subscribers and first directors are E. Shelley, druggist, and E. S. Shelley, chemist. R.O., 36 Caldmore, Walsall.

Company News.

G. B. KENT & SONS, LTD.—A dividend has been declared at the rate of 5½ per cent. per annum upon the cumulative participating preference shares of this company, payable on January 1.

OLDFIELD'S DISPENSARIES, LTD.—The first annual general meeting was held at the offices of the secretaries, Messrs. Brown, Phillips & Stewart, at Ipoh, Perak, F.M.S., on November 6, when a dividend of 10 per cent. was declared. The Chairman congratulated the shareholders on the excellent results of the year's working, and a vote of thanks was passed to the general manager, Mr. H. M. Hodges, for the valuable work he has done, it being felt that the results are due chiefly to his exertions.

HOMOCEA, LTD.—Circulars were sent out to shareholders on December 2 by the committee appointed on October 23, recommending the acceptance of an offer from Opera Omnia, Ltd., owners of the "Oatine Company," to take over the manufacture, management, and sale of Homocœa remedies for 15 per cent. of the amount of annual sales, exclusive of the cost of materials and advertising, taking for their services, in addition, 10 per cent. of the net profits and a further 5 per cent. should these latter exceed 3,000*l.* per annum.

LEWIS & BURROWS, LTD.—Mr. J. R. Brough (Chairman) presided at the annual meeting held at the Holborn Restaurant, London, W.C., on December 5, when the report and accounts were adopted (*C. & D.*, December 7, index folio 845). In moving their adoption, the Chairman referred to the increasing difficulty they experienced each year in getting the class of men they wanted. He said competition to secure good managers is a very different thing from what it was when the company commenced its operations.

CAMWAL, LTD.—The report of the directors for the year ended September 30 states that the past season was one of the most disastrous on record for all manufacturers of beverages, in addition to which cost of most materials, forage, and insurances have adversely affected the company's profit, the net amount being 1,032*l.* 7*s.* 8*d.*, which, with 640*l.* 9*s.* 11*d.* brought forward, makes a total of 1,672*l.* 17*s.* 7*d.*, out of which is recommended a payment of a dividend of 2½ per cent. on the preference shares, leaving a balance of 1¼ per cent. on

those shares for the year ending September 30, 1911; this will leave a sum of 456*l.* 7*s.* 1*d.* to be carried forward. It is intimated that Mr. Horace Davenport has retired from the chair, but retains his seat on the board, and Mr. Hayward M. Davenport, who has had much practical experience in all departments of the business, and is able to devote a large amount of time to the company's affairs, has been elected. It was provided by the articles of association that so long as Mr. Horace Davenport continued to hold the office of chairman he should be entitled to a fee of 250*l.* per annum, but for some years past he has been content to accept 200*l.* The company are advised that the article referred to would not apply to a new chairman, but that fees should be voted by the shareholders. The annual meeting will be held at the Frascati Restaurant, Oxford Street, W., on Tuesday, December 17, at 3 P.M.

IDRIS & CO., LTD.—The report of the directors for the year ended October 31 states that the past season has been a disastrous one for the mineral-water trade, owing to the cold and wet weather during the summer. In consequence, the sales show a serious reduction, not only as compared with the previous year, but also as compared with the summer months during a normal season. Unfortunately, the expenses could not be proportionately reduced, as it was necessary to be prepared for an average summer trade. After writing off depreciations and paying debenture interest of 4,000*l.*, the result of the year's trading shows a loss of 836*l.* 16*s.* 8*d.*; deducting from this the balance brought forward, 577*l.* 17*s.* 3*d.*, a balance of 258*l.* 19*s.* 5*d.* is carried to the debit of profit-and-loss account. A change has been made during the year in the syphon deposit system which the directors consider will prove of advantage both to the company and to the customers. In order to provide for this alteration a sum of 3,221*l.* 5*s.* 3*d.* has been transferred from the reserve account. It has also been considered necessary to provide for a depreciation in the investments, and to meet this 3,750*l.* has been written off the investments and debited to reserve account. To enable the directors to let some of the company's premises, a special expenditure has been incurred during the year in alterations amounting to 1,170*l.* 10*s.* 6*d.*; this amount has also been charged against reserve account. These amounts come to 8,141*l.* 15*s.* 9*d.*, leaving a balance of 31,858*l.* 4*s.* 3*d.* to carry forward to reserve account. In spite of the result of the year's trading the financial position of the company is sound, as there is not only a satisfactory balance at the bank, but the whole of the reserve account is represented by property not connected with the manufacturing business, and which yields a good return on the amount invested. Mr. T. H. W. Idris and Mr. E. K. Bishop, who retire from office, offer themselves for re-election. The annual meeting will be held at the offices of the company, Pratt Street, Camden Town, on Tuesday, December 17, at 3 P.M.

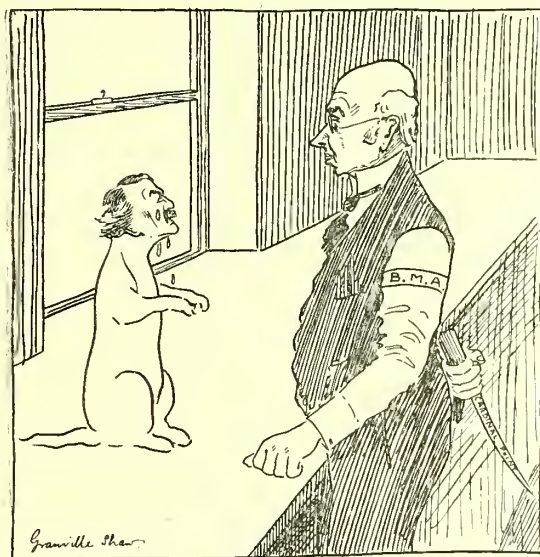
BANKRUPTCY REPORTS.

Re Frank William Morris, Minster, Isle of Thanet, Drug-store Proprietor.—The statement of affairs in this matter was reported in the *C. & D.*, November 23, index folio 772. Liabilities, 82*l.*; assets, 12*l.* The public examination of the debtor was held at the Guildhall, Canterbury, on November 30. It appeared that the business had previously been carried on by the late Mr. James William Hadley. Nothing new was said regarding the debtor's experience with it, and the examination was closed.

Re William P. Harris, Bere Alston, Devon, described as a Chemist.—The examination of this debtor took place at Plymouth Bankruptcy Court, before Mr. Registrar F. B. McCrea, on December 6. In answer to the Official Receiver (Mr. A. N. F. Goodman), debtor said he had carried on business at Lyndhurst, near Southampton, where he lost his capital of 250*l.* through competition, and eventually sold the business for 20*l.* He went to the West of England, first as *locum tenens*, then purchased the business at Bere Alston for between 30*l.* and 40*l.* The turnover while he was there practically doubled. The main cause of failure he put down to the very bad season for photography, in which he did a lot. The examination was closed.

Re Robert William Tildesley, 36 College Street, and 129 Wellgate, Rotherham, York, Chemist and Druggist.—For the statement of affairs, see *C. & D.*, November 16, index folio 742. Liabilities, 1,034*l.*; assets, 252*l.* At the public examination of the debtor held at the Sheffield Bankruptcy Court on December 5, he admitted that he had been making a steady loss for the last five years, and that to undertake the expenses of the second establishment at College Street was in one way reckless trading, but he thought he could retrieve his position, and was doing it for the best. The examination was concluded.

National Health Insurance.



The Final Appeal.

[In apologising to the National Anti-Vivisection League for this variant of their poster, our artist states that the idea he wants to represent is that "the Chancellor will be much cut up if he fails to come to terms with the doctors." Our verse-maker has another view.]

The B.M.A. long the poor dog to dissect
And describe his disease in their books;
But this Cymric canine we strongly suspect
Is not so afraid as he looks.

INSPECTORS OF PHARMACIES.

In the House of Commons on Tuesday, December 17, the Chancellor of the Exchequer is to be asked by Mr. Wheler whether for purposes of administration of the National Insurance Act inspectors of pharmacies are to be appointed, and if those appointed will be duly qualified persons registered by the Pharmaceutical Society of Great Britain; by whom the appointments are to be made, at what salaries, and whether such appointments will be whole-time appointments.

DISPENSING PANELS.

We deal editorially with steps which are being taken by the Pharmaceutical Society's Organisation Committee to assist Insurance Committees in forming dispensing panels—that is, lists of persons, firms, and corporate bodies who may lawfully carry on the business of chemist and druggist in Great Britain, to whom alone (unless in "rural areas") the dispensing of Insurance Act prescriptions is to be entrusted. As early as possible after December 31, 1912, lists of chemists undertaking this work will be exhibited in local post-offices, and those entitled to have their names in the lists should reply promptly to the letter addressed to them by the Secretary of the Local Chemists' Association. If they have not received such a letter by Monday, December 16, they should write on that day to the Secretary of the Pharmaceutical Standing Committee of their country, viz.:

For England: Mr. W. J. U. Woolcock, 17 Bloomsbury Square, London, W.C.

For Scotland: Mr. J. R. Hill, 36 York Place, Edinburgh.

For Wales: Mr. J. B. Francis, 53 Hope Street, Wrexham. Mr. Francis informs us that the Welsh Commissioners asked him: "Please send full list of all chemists to whom invitations to supply drugs should be addressed in Wales and Monmouthshire." By return of post he sent the full list of persons, firms, and bodies corporate who have expressed their willingness to serve on the panel of chemists, and he now invites any chemist in the area who has failed to notify him of his desire to serve on the panel

to communicate with the Secretary of his Local Association, or write or telegraph to Mr. Francis.

We understand that Middlesex has the distinction of being the first county to receive the tariff. The Executive Committee of the County Association of Pharmacists worked all through Wednesday afternoon addressing and posting to every registered man in business in the county copies of the documents.

East and West Denbighshire Chemists' Associations have been requested to send representatives to the County Hall, Denbigh, to a meeting of the Denbighshire Sub-Committee re the arrangements to be made for the dispensing of Medical Benefit. Chemists' representatives are to be present when the Committee have under consideration the price-list of drugs and appliances.

PHARMACEUTICAL STANDING COMMITTEE ON INSURANCE.

A meeting of this Committee was held on December 6 at 17 Bloomsbury Square, London, W.C., Mr. P. F. Rowsell in the chair. There were present Messrs. J. P. Gilmour, J. R. Hill, C. T. Cockburn, T. Guthrie, J. C. Pentney, C. B. Allen, D. Arnott, E. S. Waring, A. Hagon, A. L. Milne, E. Carpenter, J. B. Francis, R. F. Clarke, J. W. Sutherland, F. J. Gibson, H. Kemp, G. A. Harmer, G. V. C. Last, R. W. Lindsey, T. W. Townley, W. B. Trick, E. T. Neathercoat, and Mr. W. J. Uglow Woolcock (Secretary). Mr. W. S. Glyn-Jones was also present. The Committee discussed the report of the Prices Sub-committee on their negotiations. It was agreed that matters could not be carried further with the Insurance Commissioners, and after a long discussion the following resolution was unanimously carried:

"That the Secretary be instructed to put the necessary machinery immediately in motion for bringing the tariff before each local Insurance Committee."

The Committee discussed the new Government terms to the medical profession, including the right to dispense medicines in rural areas for insured persons who were more than one mile distant from a chemist. The Chairman referred to the District Committee Regulations, and general approval was expressed that pharmacists had obtained representation on each District Committee in England and Wales. The Committee spent several hours in revising the tariff, which was finally passed and ordered to be printed and sent to the various local organisations. The Secretary outlined the plan of campaign to be carried out during the ensuing weeks, which was generally approved; and it was unanimously agreed that plenary powers be given to Mr. P. F. Rowsell (Chairman), Mr. C. B. Allen, Mr. E. T. Neathercoat, and the Secretary to take any course they deemed necessary to bring to a successful issue the plan arranged.

DISPENSARY DOCTORS AND DRUGS.

The Board of Governors of the Leicester and Leicestershire Provident Dispensary have circularised their members, intimating that "owing to the medical officers having resigned their positions on the Dispensary staff," the Dispensary and all its branches will be shut down on December 31. The central dispensary is in New Bond Street, Leicester, and there are fourteen branches in the town. In 1911 the members on the books were 59,377; the medical officers were paid 6,617*l.* 13*s.*, or on a *per capita* basis 2*s.* 3*d.* The drug bill amounted to 1,283*l.* 8*s.* 1*d.* for 431,293 prescriptions. This is 5*d.* *per capita*, or almost $\frac{3}{4}$ *d.* each prescription. It is understood that the medical staff are combining with other medical practitioners to form a "Public Medical Service," and that they are negotiating with the Board as to renting the central dispensary and four of the branches. The "Leicester Mail" adds: "It is expected that the Dispensary will be carried on on similar lines to those in the past, but members will probably have to pay a little more."

MEDICAL BENEFIT REGULATIONS FOR SCOTLAND.

The revised regulations referred to and printed in the *C. & D.* last week apply to England and Wales, being sealed by Mr. W. J. Braithwaite for the Joint Committee, Mr. Claud Schuster for the Insurance Commissioners, and Mr. H. Meredith Richards for the Welsh

Insurance Commissioners. Similar regulations for Scotland have been issued this week. They are signed by Mr. Braithwaite for the Joint Committee and by Mr. John Jeffrey for the Scottish Insurance Commissioners. We have compared them with the English-Welsh regulations and find them to differ as follows:

Regulation 7 (2) has added to it:

(b) In any County where owing to sparseness of population, difficulties of communication, or other special circumstances the Committee consider it desirable they shall have power, with the consent of the Commissioners, to adopt such method of remuneration of practitioners undertaking treatment in such County as the Committee may think necessary.

Regulation 13, dealing with the preparation of medical list, provides additionally:


(3) Nothing contained in the preceding sub-section shall require any Committee to place upon the medical list the name of the firm or partnership as itself undertaking treatment.

Regulation 60 is 61 of the English-Welsh (60 in the latter is Application to Wales), and is followed by a provision (not in the English-Welsh) repealing the Regulations of October 1912.

As none of these differences directly affects chemists, the position of the latter in the three countries is the same.

HOW TO GET A DOCTOR.

In the *C. & D.* Supplement last week, p. xxxvi, we gave the text of the official circular which is being issued regarding the arrangements for medical benefit from January 15 to April 30, 1913. The Medical Ticket is printed on a red card, measuring 4 in. by 3 in. We reproduce the front of it:



NATIONAL HEALTH INSURANCE.

MEDICAL TICKET.

NOT TRANSFERABLE.

This Ticket is to be used only for the purpose of obtaining medical benefit for the person to whom it is issued. If any other person uses or attempts to use it for the purpose of obtaining benefit for himself he is liable to penalties under the Act.

Write here your name
and the exact address
where you are now
living.

Society and Branch

Contributor's Number

This Ticket can only be used from the 15th January to the 30th April, 1913.

The wording on the back is as follows:

NOTICE.—You must produce this ticket in order to obtain medical benefit. If you obtain your treatment from a doctor on the list published by the Insurance Committee you must show this ticket to him, but must keep it in your own possession.

A list of doctors may be seen at the post-office nearest to your address; and any information required can be obtained from the local Officer of Customs and Excise, whose address can be ascertained by inquiry at your nearest post-office.

[Space for signature of doctor.]

If you obtain your treatment from an Approved Institution you must give this ticket to the institution.

If you are arranging with the Insurance Committee to obtain your treatment from a doctor not on the list, and wish to claim a contribution towards the cost of the treatment, you must send this ticket to the Insurance Committee. No such ticket is required for chemists, as all orders for drugs and appliances and prescriptions will be written on official forms, which the patients will take to the chemist of their choice.

THE MEDICAL ATTITUDE.

The Council of the British Medical Association at the meeting held last week decided by a small majority not to give members of the Association a lead as to the acceptance or otherwise of the final terms of the Government for medical and surgical attendance. The matter has been referred to the divisions of the Association, and it appears from the decisions already arrived at that by large majorities most refuse to work the Act. Inde-

pendently a new Association is being formed of practitioners who will accept service under the Act. It is styled the National Insurance Practitioners' Association, and its headquarters are 39 Victoria Street, London, S.W. It is understood that the Insurance Commissioners have been working steadily towards completing arrangements for the formation of medical panels, and that these are well advanced for all countries; the least difficulty is in Scotland and in several towns in England (e.g., Birmingham, Nottingham, and Sunderland) there will be little difficulty.

SPECIAL ORDER.

By notice gazetted on December 10, the Insurance Commissioners announce their intention of making a special order under Sub-section 7 of Section 47 of the National Insurance Act, extending the provisions of the said section to S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C. Under Section 47, for employers who hold themselves liable to pay wages during six weeks' sickness in any one year, the employed rate is reduced by 2d. in the case of men and by 1½d. in the case of women (the rate for the employer being reduced by 1d. and ½d. as regards men and women respectively, while the employes' rate is lessened by 1d.). In all six firms (including three co-operative societies) are specified in the "Gazette" notice, but our representative was informed by Messrs. S. Maw, Son & Sons that they believed they were the first applicants for a special order. The order merely continues the policy observed by the firm in years past of paying full wages during sickness. That the firm's employes benefit thereby is evident when it is remembered that the average duration of sickness is less than two weeks each year. Curiously enough, the Commissioners would not include in the order the employes at Messrs. Maw's tooth-brush factory.

QUESTIONS IN PARLIAMENT.

The only question of importance in regard to Medical Benefit during the past week was put on Wednesday by Mr. Bird, the member for Wolverhampton, who asked whether the amount of personal time and attention which could be given by a fully qualified doctor who contracted to attend 1,000 patients under the National Insurance Act would be sufficient to comply with the regulations under the Act. To this Mr. Masterman replied as follows:

Care will be taken to ensure that doctors do not contract to give attendance to a greater number of insured persons than is consistent with the interests of those persons. The hon. member is, however, under a serious misapprehension. No doctor will contract to attend 1,000 patients. The contract will be to give such attendance as may be needed by any of the insured persons on the doctor's list. The number of persons on that list may be 1,000, or some other number, but the majority of them will not require medical attendance at all during any given year. This correction in the basis of calculation alone will have the effect of multiplying by several times any estimate of remuneration available or dividing similarly any estimate of work required. Even with this allowance, however, I am unable to follow the hon. member's figures as to attendances which are not implied by any provision of the regulations, and appear to be wildly in excess of estimates advanced even by critics of the Act. According to the experience of contract practice in the past, a doctor with 1,000 persons on his list (in respect of whom he would be receiving 350l. to 400l. per annum) would be required to give about twelve attendances a day, including both visits at the patient's home and consultations at the surgery.

Sir P. Magnus, Mr. Lawson, and the Marquess of Tullibardine put supplementary questions, which Mr. Masterman replied to.

SANATORIUM BENEFIT IN SCOTLAND.

The Chancellor of the Exchequer received at the House of Commons on Monday a small deputation from County and Burgh Insurance Committees in Scotland, who desired to protest against the proposal of the Government to allocate 6d. from the 1s. 3d. provided by the Act in respect of each insured person for defraying the cost of Sanatorium Benefit. The Chancellor stated, after he had heard the deputation, that he was unable to grant the concession asked for by the Insurance Committees, who must be content with the ninepence and rely upon the rating authorities to make up half the balance and the Treasury the other half.

BIRTHS.

FERRIE.—At The Neuk, Kirkliston, on November 7, the wife of George T. Ferrie, chemist and druggist, of a daughter.

MACDONALD.—At "Dehra Dun," 29 Donovan Avenue, Muswell Hill, London, on December 6, the wife of Alexander Macdonald (Messrs. Alexander Lawrie, 14 St. Mary Axe, London), of a daughter.

PURSE.—At Park View, Mount Road West, High Barnes, Sunderland, on December 6, Rhoda, the wife of Alfred H. M. Purse, Secretary of the Sunderland Pharmaceutical Association, of a son.

SPROTT.—At 4 Westbury Road, Wembley, on December 7, the wife of F. H. Sprott, pharmacist, of a daughter.

MARRIAGES.

ALEXANDER—THOMSON.—At 45 Albany Street, Leith, on December 9, by the Rev. W. Greig Alexander, M.A., Balgedie and Portmoak, Kinross (brother of the bridegroom), David Halley, son of Mr. W. G. Alexander, chemist and druggist, Leith, to Christina Fraser, daughter of Mr. William Thomson.

HANBURY—GRICE.—At the Church of St. Andrew, Kenn, Devon, by the Rev. F. W. Vining, on December 3, Alfred Cornelius, eldest son of Mr. and Mrs. Frederick J. Hanbury, of Brockhurst, East Grinstead, to Sarah Anne, daughter of Mrs. Grice, of Worcester.

DEATHS.

COOK.—At Holbeach, on December 8, Mr. John Frederick Cook, chemist and druggist. Mr. Cook was the son of a Holbeach chemist. As a young man he visited America, but soon returned and commenced business over fifty years ago in High Street, Holbeach. He retired four years ago, being succeeded by Mr. J. F. Fowle, chemist and druggist. Mr. Cook was one of the first to join the Lincolnshire Volunteers in 1860, and was a good shot.

DENNIS.—In Nottingham Cattle Market on December 7, suddenly, Mr. John Lee Dennis, chemist and druggist, Heanor Avenue, Sneinton Dale, aged seventy. Mr. Dennis had been in failing health for some time.

FAIRWEATHER.—At Broughty Ferry, Forfarshire, on December 5, M. A. Young, mother of Mr. James Young Fairweather, chemist and druggist, 313 Sydenham Road, London, S.E.

GRIFFITHS.—At 13 Barcombe Avenue, Streatham Hill, London, S.W., Mr. Arthur Bower Griffiths, Ph.D., F.R.S.E., aged fifty-three. Dr. Griffiths was the author of a book on Manures, and for some years past had laid himself out as a teacher of pharmaceutical chemistry.

POTTAGE.—At Beverley, Yorks, on December 3, Mr. William Pottage, retired chemist and druggist, aged eighty-two. Mr. Pottage succeeded his father in a business established a century ago.

WATERHOUSE.—At Westfield, Ashton-under-Lyne, on December 8, Esther, widow of Mr. Jabez Waterhouse, J.P., and mother of Councillor C. H. Waterhouse, J.P., of J. Waterhouse & Co., wholesale druggists, Ashton-under-Lyne, aged eighty-five. The deceased lady acted as Mayoress during the early part of her son's two years' mayoralty at Ashton.

WHITE.—At his residence, Southwood Lane, Highgate, on December 10, Mr. A. White, for many years a much-esteemed representative of Messrs. F. Newbery & Sons, Ltd., aged sixty-four. Mr. White was deservedly popular with a wide circle of friends, to whom he had endeared himself by his unflinching courtesy and integrity. He had been laid aside for a few days only. He is survived by Mrs. White and three daughters.

TRADE NOTES.

DR. LIERMANN'S BOLE PREPARATIONS.—Messrs. Chas. Zimmermann & Co., 9 and 10 St. Mary-at-Hill, London, E.C., are introducing Pasta Liermann and Bolus soap to the notice of surgeons in this country, and will be glad to supply any chemist with printed particulars in regard to them.

STOCKTAKING.—At this time of the year, which many chemists choose for their stocktaking, it is useful to remind our readers of the stocktaking pads which are supplied by Messrs. J. McQueen & Co., Moat Road, Leicester. There are two rulings of these pads, and Messrs. McQueen will send specimen sheets to any chemist who applies. Each pad contains fifty sheets.

CIGAR PRICE-LIST.—Messrs. Ingram & Royle, Ltd., Bangor Wharf, 45 Belvedere Road, London, S.E., have issued a revised trade-list of cigars and cigarettes for which they hold special agencies. This is brought out at a seasonable time of the year, when the sales of cigars and cigarettes are greatest. Chemists who sell these goods and those who have occasion to buy in quantity should apply for the list.

MARTINDALE'S LIST.—The quarterly wholesale price-list, dated December, issued by Mr. W. Martindale, 10 New Cavendish Street, London, W., is an extraordinary production on account of the mention therein of so many new remedies and out-of-the-way methods of treatment. It is on this account, among other reasons, that up-to-date chemists make a point of providing themselves with a copy of each issue of Martindale's price-list. It is obtainable on postcard request.

HOVENDEN'S CATALOGUE for 1912-13 is a compendious volume of 800 pages (10 in. by 7½ in.). Of these fifty are taken up by a very complete index, and over a hundred by the yellow sheets of the patent medicine and druggists' sundries section. The remainder is occupied by the perfumery and fancy goods sections which are plentifully illustrated. The list is an invaluable one, and Messrs. R. Hovenden & Sons, Ltd., will be pleased to send on receipt of business-card a copy to chemists who have not already received one.

TABLOID THYROID GLAND.—The trend in thyroid-gland medication is towards the prescribing of smaller doses than were formerly employed, these giving equally satisfactory clinical results. To meet the demand Messrs. Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have issued "Tabloid" thyroid gland containing gr. ¼ and gr. ⅙ in bottles of 100. The medicament has been standardised by chemical means and is in an active condition. There are now on sale "Tabloid" thyroid gland of ten different strengths.

HEROGEN is a new food brought out by The British Drug Houses, Ltd., 22 to 30 Graham Street, City Road, London, N. The point which strikes us as of interest is that this is not casein and glycerophosphate food. In a circular issued to the medical profession and pharmacists it is stated that the production of a complete balanced and concentrated food

has been secured by taking the valuable constituents of milk, the lean parts of fresh meat, the carbohydric and glutinous substances of cereals and of malted grain, and the chief nitrogenous principles of eggs, and combining them in suitable proportions by a process in which the successive operations of digestion, evaporation *in vacuo*, and sterilisation play an important part.

The taste of herogen is distinctly agreeable, a pleasant reminiscence of malt being left on the palate. The food is prepared for use by mixing two teaspoonfuls in a breakfastcupful of warm milk and water, for children employing half the quantity of herogen. The food is packed in tins fitted with a double lid, so that it will not deteriorate when placed in stock. The sizes are 4 oz., 8 oz., and 16 oz., selling at the minimum retail prices of 1s. 6d., 2s. 6d., and 3s. 9d. Medical men have not been slow to appreciate the advantages of herogen, and pharmacists in consequence may expect a demand immediately.

OPTICAL PRESCRIPTIONS.—Mr. Sandro Lowy has this week started a wholesale business at 88 Goswell Road, London

E.C., as a dispenser of prescriptions for spectacles and eyeglasses. The premises are newly erected at the City end of Goswell Road and have been fitted with modern optical machinery, with electricity as the motive power. Arrangements have been made for dealing promptly with orders received from opticians, the rule being that all prescriptions are filled and returned the same day. Mr. Lowy has had many years' experience with one of the largest optical houses in the trade, and is competent to deal with every phase of optical prescription work. He has issued a booklet entitled "Optical Jottings," which contains, besides calendar, postal information, and near-vision test types, some useful hints regarding interpupillary distances, testing for colour perception, service standards of sight, the influence of lens position, tilted lenses, amplitudes, a comparative table of dioptric values, measuring the powers of deep lenses, checking lens prisms, prism equivalents, dimensions of standard interchangeable lens, and bifocals. This, we understand, will be sent with a price-list to chemist-opticians who apply for it. The price-list is in card form for hanging up in the testing-room.

PHARMACEUTICAL SOCIETY OF IRELAND.

Council-meeting.

THE Council met at 67 Lower Mount Street, Dublin, on Wednesday, December 4, Mr. G. D. Beggs (Hon. Treasurer) in the chair. There were also present Dr. Charles J. B. Dunlop, Messrs. Thomas Batt, Richard Blair, Joseph H. Bowden, James Michie, and John Smith.

PRESIDENCY AND VICE-PRESIDENCY.

Sir Wm. J. Baxter, D.L., wrote to say that he was prevented being present owing to a heavy snowstorm.

The REGISTRAR read the following letter:

"61 South Great George's Street, Dublin,
November 25, 1912.

"DEAR MR. FERRALL.—I am much obliged for your letter enclosing copy of resolution passed at last Council-meeting. The deputation then appointed has called on me, and I have agreed to withdraw my resignation of my seat on the Council. I appreciate very highly the kindly remarks which were made regarding me at the Council-meeting and reported in THE CHEMIST AND DRUGGIST of November 9.

"Yours faithfully,

"D. M. WATSON."

On the motion of Mr. SMITH, seconded by Mr. BEGGS, this letter was received with pleasure, and on the motion of Mr. BEGGS, seconded by Mr. SMITH, Sir Wm. J. Baxter, D.L., was re-elected President of the Society; while on the motion of Mr. BOWDEN, seconded by Mr. BATT, Mr. D. M. Watson was unanimously re-elected Vice-President.

RECIPROCITY.

The REGISTRAR read the following letter:

"Pharmacy Board, Brisbane, September 12, 1912.

"SIR,—In reply to your letter of July 22, I have the honour, by direction, to state that this Board appreciates your desire for the power to enter into reciprocity with us. We hope that this will not be long distant, and also that we may be the first to exchange diplomas. Meanwhile, your letter has been noted.—I have the honour to be, Sir, your obedient servant, JOHN W. WARD, Registrar."

CHANGES OF ADDRESS.

Communications notifying changes in their address were received from the following:

Mr. Michael Ryan, Ph.C., to 12 Lower Camden Street, Dublin.

Mr. J. F. Young, Ph.C., from 5 Elliott Road, Cheswick, to Sandford, 11 Knutsford Drive, Cliftonville, Belfast.

Mr. J. Armstedt Ray, Ph.C., to 23 Nassau Street, Dublin (number of premises changed).

Mr. Henry F. L. Wilson, Ph.C., to the Navan Medical Hall, Ludlow Street, Navan, co. Meath.

Mr. H. G. Varker, Ph.C., c/o William, chemist, Darling Point, Sydney, N.S.W.

Mr. W. Kirkwood, Ph.C., to 629 Lipton Street, Winnipeg, Man., Canada.

Mr. Wm. M. Keys, Ph.C., from 23 Lawrence Street, Belfast, to 27 Falls Road, Belfast.

Mr. A. Dowling, Ph.C., to 89 Clanbrassil Street, Dundalk, co. Louth.

Mr. Alfred C. Austin, Bray, to c/o Mr. Cleghorn, Castle Street, Cape Town.

Mr. T. J. Watts, R.D., to 27 Sunday's Well, Cork.

Mr. S. Edgar Kee, R.D., to 1200 Hastings Street East, Vancouver, B.C.

Mr. Lionel Firth, R.D., to 24 Albertbridge Road, Belfast.

Mr. Edward J. Hendley, R.D., to c/o Lymans, Ltd., wholesale druggists, Montreal.

MISCELLANEOUS BUSINESS.

Mr. T. J. Shannon submitted a certificate in lieu of the Preliminary examination, and his name was registered.

Mr. Blair was appointed a delegate to the Royal Sanitary Institute Congress at Exeter in July 1913.

The thanks of the Council were voted for donations from the International Pharmaceutical Federation of copy of the "Bulletin," and the British Pharmaceutical Conference of copy of "The Year-book of Pharmacy, 1912."

Mr. George Brownlee, B.Sc., was appointed a teacher to conduct the class for theoretical chemistry and physics.

Reports were received from the Law Committee, the House Committee, and the School Committee.

The REGISTRAR notified the death of Mr. Albert Henry Bell, M.P.S.I., Waterford, and of Mr. Robert Jones, Ph.C., of Cavan.

MEMBERSHIP.

Mr. David C. Glenn, Ph.C., Greystones; Mr. James McCormack, Ph.C., Wexford; Mr. Denis J. Nugent, Ph.C., Terenure; and Mr. Peter P. Waldron, Ph.C., Ballyhaunis, were elected members of the Society. Mr. Denis Flynn, Ph.C., Fernoy, and Mr. Thomas Mitchell, Ph.C., 159 Newtownards Road, Belfast, were nominated for membership.

Examinations in January 1913.

The latest dates for making application for the January examinations are: Thursday, December 19, for the Preliminary examination; Tuesday, December 24, for the Registered Druggist and Pharmaceutical Licence examinations; Monday, December 30, for the Pharmaceutical Assistant Examination. Applications should be lodged with Mr. Arthur T. Ferrall, Registrar, 67 Lower Mount Street, Dublin, by 11 A.M. on the respective dates.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Evening Meeting.

THE second evening meeting of the present session was held at 17 Bloomsbury Square, London, W.C., on December 10. The President (Mr. C. B. Allen) was in the chair, supported by Mr. F. A. Rogers and Professor H. G. Greenish. The attendance of members was but moderate.

COD-LIVER OIL.

The first paper, by Dr. Owen T. Williams, Lecturer on Pharmacology at the University of Liverpool, was entitled "Cod-liver Oil." This paper was read before the British Medical Association in July, and published in the "British Medical Journal" on September 21. Abstracts of the lecture were also printed in "The Lancet" and THE CHEMIST AND DRUGGIST, August 24, index folio 342. The paper confirms Möller's work, published in "Cod-liver Oil and Chemistry," 1895, the following being the conclusions arrived at by Dr. Williams:

1. Clinical evidence shows that cod-liver oil has beneficial effects in phthisis.
2. It has marked action on fat absorption and nitrogen retention.
3. It is possible that the fatty acids of the oil, when they reach the tissues, have direct influence on the tubercle bacillus.
4. Of the oils on the market, the forms which are prepared under conditions which prevent oxidation have the

greater amount of unsaturated fatty acid compounds to which the therapeutic effects can be attributed.

5. The oils prepared under these conditions have the least taste.

The subject was discussed by Messrs. E. F. Harrison, H. Finnemore, F. W. Gamble, and W. Garsed.

DIGITALIS ASSAY.

Dr. W. HARRISON MARTINDALE followed with a paper on "Digitalis Assay," and as this was distributed in book form the members were able readily to follow the lecturer's remarks. Mr. H. Johnson, Dr. Martindale's assistant in the research, gave a demonstration of the colour-tests, employing for the purpose miniature test-tubes stuck in plasticine placed on a white slab. The knowledge of the digitalis glucosides was briefly rehearsed, those chiefly concerned being digitonin, digitalin, digitoxin, and digitalein. The constituents of digitalis leaves and seeds are divided by Kobert into two classes. They both contain two groups of substances—viz., glucosides of the digitalin group and glucosides of the saponin group. Infusions of the leaf contain only gitalin and digitosaponin, while that from the seeds contains gitalin and the water-soluble digitonin of Schmiedeberg. As leaf infusion is therapeutically the best preparation, it follows that gitalin is in Kobert's opinion an important substance in therapy.

Dr. Martindale next dealt with the attempts that have been made to devise assay processes, especially referring to the work of Keller, Fromme, Stoeder, Gordon Sharp, Barger and Shaw, Barenstein and Burmann. The general conclusion seems to be that digitoxin content ranges from about 0.1 to 0.3 per cent. in the leaves, and is most abundant in the leaves in August, hot, dry weather increasing the content. The author considered that there would be considerable utility and value in a simple mode of assay, which would, if possible, render the pharmacist in future independent of the physiologist. At first, however, a comparison between results obtained by the physiologist with existing approximate tests seemed imperative. The next step was to study the results obtained with leaves collected at different seasons and conditions. The results were divided into:

- (1) Examination of infusions of various leaves, and
- (2) Tinctures of the same by available approximate chemical tests.
- (3) The physiological examination of the tinctures.
- (4) The devising of an approximate simple chemical assay method and the comparison with physiological results. Glycerin extractives and tables of solubility and colour reactions.

In examining the infusions, it was found that the Keller-Kiliani test is by no means delicate. The Keller-Kiliani method applied to the leaves was found to be unsatisfactory on account of the chlorophyll admixture. In the attempt to find a better test than the Keller-Kiliani to indicate digitoxin in an infusion or tincture, the effect of various reagents was tried. Fröhde's test (ammonium molybdate 1 per cent. in sulphuric acid) gave the most distinctive test for digitalin, and then a research was conducted as to the cause of the blue colour by the "layered" Fröhde test. An investigation was also conducted on similar lines with the Keller-Kiliani test. Dealing with physiological tests, the author mentioned that physiologists differ, some examples being given, and Focke's physiological assay method was given in detail.

Dealing next with the devising of a simple chemical assay method, the author gave the various steps he took before arriving at the following final method for assaying the official digitalis tincture in terms of physiological equivalents:

To determine whether a tincture is up to physiological test requirements [usually taken at M.L.D. (minimum lethal dose)=0.75 c.c. per 100 gm. body weight of frog], mix 10 c.c. of the tincture with 10 c.c. of water, precipitate with 10 per cent. neutral lead-acetate solution (about 3 c.c.), adding a little kieselguhr. Allow to stand for a quarter of an hour, filter off on the pump, wash the precipitate slightly. Remove excess of lead from the filtrate with 10 per cent. sodium-phosphate solution (about 2 c.c. required) and filter. Add a little calcium carbonate (about 0.2 gm.) to the filtrate, and evaporate to dryness on a water-bath. Add about 2 gm.

of dry washed sand to the residue, and extract with chloroform five times by thorough trituration, using about 10 c.c. on each occasion. Filter and evaporate the chloroformic solution, and extract the residue with warm water on the water-bath, using 10 c.c. and 5 c.c. and again employing sand. Filter, evaporate to dryness in a porcelain basin, extract the residue again with cold chloroform to purify it (about three or four quantities of 5 c.c. each, using dry sand and triturating thoroughly with a small pestle), and filter. Evaporate the combined chloroformic liquors and dissolve the residue in 4 c.c. of glacial acetic acid. Mix 0.1 c.c. of this acetic solution with 1 c.c. of sulphuric ammonium molybdate reagent in a 5×1 cm. test-tube and compare the depth of colour after five minutes with the scale devised by the author and printed in the book—this coloration indicates the content of combined "active water soluble" glucosides. Further, if 0.1 c.c. of the acetic solution be mixed with 0.5 c.c. of glacial acetic acid, and this be layered upon 1 c.c. of the sulphuric ammonium molybdate reagent, the typical blue ring showing presence of digitoxin should be formed.

A complete table was appended of the colour reactions, solubilities, and of the samples of leaves examined. An improved glyceract of digitalis was referred to, the leaf being washed thoroughly with petroleum-ether, and dried before percolating with the glycerin and alcohol menstruum.

THE CONCLUSIONS

arrived at were as follows:

- (1) Digitalis preparations can be assayed by a simple colorimetric chemical method.
- (2) The process which I have devised, though not claiming absolute accuracy or comparison with the physiological methods, will, at any rate, show whether a tincture is above or below standard, and it will with certainty show an excessively strong or a weak preparation. The method uses only a small amount of tincture. The apparatus and reagents are perfectly simple, and such as a pharmacist would have at hand. Weighing of residues of questionable purity by means of an accurate balance is not introduced. The process takes about three hours to carry out.
- (3) There are strong indications that digitoxin is not entirely insoluble in water.
- (4) The routine use of animals in assays is not justifiable if a chemical method can be devised to produce equivalent results. In particular, methods involving vivisection for routine assay are to be deplored. Their use in experiments in research work is an entirely different matter. Furthermore, the pharmacist should, if possible, be able to assay all the drugs he dispenses.
- (5) Selected leaves recently dried, as a general rule, will produce tinctures up to standard, but there is obvious danger in the variation which may occur. At present a patient might easily obtain a preparation twice as strong at one pharmacy as at another. Considering the fact that, with digitalis, prolonged administration in the treatment of heart affections is almost always necessary, and that the initial doses of digitalis are invariably large, it is evident that standardisation of its preparations is of great importance.
- (6) There is much to be learnt as to the ideal conditions for growth of digitalis. Speaking generally, I think a dry season favours potency. The most potent leaves I have examined were second year's leaves from plants grown in this country in a sunny exposed situation. These leaves at time of collection were from plants showing no flower spikes.
- (7) An active glycerol-alcohol extract can be produced of strength 1=1; in fact, exactly equal in strength to eight times that of a B.P. tincture.

DISCUSSION.

Mr. HAROLD DEANE said that if the new test is as reliable as the physiological test it would be a great advance. He had not found the physiological test to be always correct; for example, a fat-free tincture came out stronger than the ordinary tincture. The conclusions as to the influence of the weather on the activity of the leaves were based on too small a number of samples. It had been found that the autumn leaves gathered this year after a wet summer came out about the same as the last year's crop, while leaves gathered this year before the wet weather were weaker in glucosides.

Mr. FINNEMORE said that anyone taking up the subject should start by burning all the books and papers that have ever been written on this drug. There are one or two points in Dr. Martindale's work which appear to him (Mr. Finnemore) to vitiate the results. For instance, below the standard tints it is stated: "It should not be lost sight of that a

tincture becoming weak physiologically might still give the same colour test as originally—this can only be found out by keeping a tincture for a length of time."

Dr. MARTINDALE: Before the matter goes any further, I should like to state that the only standard at present is the physiological one, and we have had to produce results concordant with it.

Mr. FINNEMORE: Yes; but the note I have just read gives the whole thing away.

Dr. MARTINDALE: That is put in as a safeguard. It is impossible to settle that point until time has elapsed—say six months or a year.

Mr. FINNEMORE: We shall have to keep your book to see if the same colour is produced after a lapse of time.

Dr. MARTINDALE: I am sure I shall be honoured if you will do so. (Laughter.) In the words of Mr. Asquith, we can only in this case "wait and see." In regard to the point mentioned by Mr. Deane, it is a fact that the fat has a hindering effect on the potency of digitalis preparations, and it would be noticed that in the improved glyceextract the fat is removed before exhausting the leaves.

Votes of thanks were then given to the authors, and the meeting adjourned to the Examination Hall for refreshments. Among the museum specimens exhibited was one of the guarana figures to which Professor Stockman referred in his paper before the North British Branch, and a specimen of Wabei or Ouabaio arrow-poison, presented by Dr. F. B. Power.

Benevolent Fund Election.

Earlier in the same day the election of four annuitants took place. The poll was declared at 3 o'clock in the Examination Hall, the following being the result:

Littlejohn, Frances H.	4,994
Dawson, Robert	4,008
Collins, H. G.	3,309
Pimm, Jane A.	3,047

Stokes, Elizabeth	2,764
Roberts, Celia	2,701
Arnold, Elmore M. M.	1,961
Pennock, Alice A.	1,707

The PRESIDENT (Mr. C. B. Allen) declared the first four to be duly elected annuitants of the Society. Mr. W. F. Gulliver acted as chairman of the scrutineers.

CHEMICAL SOCIETY.

THE ordinary scientific meeting at Burlington House on December 5 proved to be a gala night for the physicists. Professor M. O. Forster (Vice-President) occupied the chair. The attendance was small. Only one of the papers on the short list of contributions was read. This was by Professor E. C. C. Baly and Mr. F. Rice on

CHEMICAL REACTIVITY AND ABSORPTION SPECTRA.

Professor Baly prefaced the paper proper by an explanation of his theory of secondary valencies, which he considers must be present to a certain extent in every molecule, and in every single atom. These constitute a field of force round each atom which becomes condensed in the molecular state. In the case of ammonia gas the condensation is complete, and the product has practically no chemical reactivity. Hydrochloric-acid gas is similar, and before mixtures of the two gases will react it is necessary to unlock the condensed fields of force. This may be brought about by the addition of a third substance possessing a certain amount of residual affinity. Water and sulphur dioxide were mentioned as compounds in which the forces are not balanced. Or the fields of force may be opened by the absorption of light, this being the resultant of a struggle between the chemical forces to close the system, and light to open it. The fact that the light is doing work explains why light (energy) is absorbed and gives for the first time a thoroughly sound explanation of the phenomenon. Catalytic agents are substances which open up systems, and negative catalysts find a place on the hypothesis that they are substances which still further close the fields of force and thus diminish chemical reactivity.

Carrying the theory further, Professor Baly said that on adding an acid to a base the first change would be the

establishment of a potential gradient between the two, then a negative charge of electricity would run along the lines of force, and the true chemical salt would be formed. He indicated that the precipitate formed on adding sodium methoxide to ethylacetoacetate might be this intermediate state.

In an absolutely pure substance the condensed forces may or may not be opened by light-rays. If they are unlocked to a small degree, according to theory dilution by a solvent would cause more light to be absorbed until the rays are doing all the work they can, thus obtaining a maximum absorption of light. On further dilution there would be less light absorbed, and finally a stage would be arrived at at which no light is absorbed. The paper itself showed that the absorption curve given by ethylacetoacetate (this was in two halves given by dilution with alcohol and water respectively) gave results fully bearing out those prophesied by theory. Errors in measuring thin layers of liquid would only go to make the results more convincing.

The Chairman remarked that the dense and humid atmosphere of Liverpool had in nowise dimmed the speculative ability of Professor Baly. He felt as if he had just witnessed a specimen of chemical post-impressionism.

Professor Brereton Baker said he did not grasp what is the test for residual affinity. He had been hunting for a substance which would take the place of water in bringing about chemical reactions.

Dr. Lowry gave some alternate hypotheses regarding catalysis and light absorption. Dr. Senter also spoke.

Professor Baly, in replying briefly, said he could not suggest any catalyst to replace water. He had mentioned sulphur dioxide in a mild tone of voice, only to be told that it did not work. The theory merely offered an explanation of how water does aid chemical reactivity.

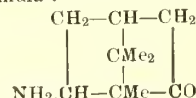
The Chairman humbly suggested that the formation of ammonium hydroxide is a necessary preliminary to the combination of ammonia and hydrochloric acid. Perhaps sulphuretted hydrogen might act as a catalyst in that case.

Professor Baker said that neither sulphuretted hydrogen, sulphur dioxide, alcohol, copper oxide, carbon dioxide, nor oxygen will act. Nothing is effective but water. He is inclined to believe that all the reactions are of the same class, but it is possible that he was making a mistake.

Mr. C. E. Groves then occupied the chair while Dr. Forster read a paper by himself and Mr. H. A. H. Howard on

Iso-AMINO-CAMPHOR.

This had been read at the International Congress of Chemistry, and had just been put in form for the Society's "Transactions." This brings evidence in support of the view that Tiemann's *iso*-amino-camphor is β -amino-camphor of the formula:



The authors have also isolated β -hydroxycamphor, which becomes transformed in an hour or so into the isomeric dihydro-campholenolactone. There was no discussion.

The President then announced the result of the ballot for the Fellowship of the Society. The newly elected Fellows included the following gentlemen connected with pharmacy:

- Mr. W. L. Bailey, pharmacist, Matlock.
- Mr. W. H. Dixon, pharmacist, 51 High Street, East Grinstead.
- Mr. G. D. Elsdon, B.Sc., A.I.C., City Analyst's Laboratory, Birmingham.
- Mr. S. C. Gadd, of Evans, Gadd & Co., Ltd., Exeter.
- Dr. G. F. Morrell, Ph.C., B.Sc., lecturer at Sir John Cass Institute.
- Mr. J. W. Patterson, Ph.C., of Messrs. G. Curling, Wyman & Co.'s laboratories.
- Mr. M. Remers, L.R.C.P., L.R.C.S.Edin., pharmacist, 24 Chorley Old Road, Bolton.
- Mr. H. C. Roper, pharmacist, 42 Cavendish Place, Newcastle-on-Tyne.

CYPRUS SPONGES.—During 1911-12, 2,186 cokes of good sponges were fished off the Cyprus coast, valued at 3,718*l*.

WINTER SESSION.

Reporters, and Secretaries of Associations whose meetings are not open to reporters, are requested to send their reports to the Editor not later than the Wednesday following the meeting.

Meetings of Chemists in regard to Insurance Dispensing are for convenience included here, although they may not be Association Meetings. It is particularly requested that reporters will follow the style adopted herein, so as to get in all important facts in the minimum of space, thereby assuring the maximum of interest and utility.

Aberdeenshire.—The annual meeting of the East Aberdeenshire Pharmacists' Association was held at Maud on December 5, Mr. James Christie presiding. Councillor Low (Fraserburgh) proposed that Mr. W. Hunter (Fraserburgh) be elected President for the ensuing year. He also proposed the re-election of Mr. Alex. Milne as Secretary. Mr. Alexander Gall seconded, and the motion was agreed to unanimously. Mr. Hunter and Mr. Milne returned thanks. The members then dined together, Mr. J. F. Tocher being the guest of the day, as reported elsewhere in this issue.

Association of Women Pharmacists.—Mrs. Freke presided at a meeting held in Gordon Hall, Gordon Square, London, on Thursday, December 5, when Miss Margaret Buchanan opened a discussion on the advisability of Beginning a Technical Training immediately on leaving School. The subject was limited to women and pharmacy, and it was well kept up, some personal experiences being given by the speakers, and the importance of the regular apprenticeship for women as well as for men being urged. Among those taking part were Miss Gilliatt, Miss Bolton, and Miss Clairmont. Additional interest was given to the meeting by the presence of Mrs. Bignell from Melbourne, President of the Association of Women Pharmacists of Victoria, who gave, in an informal way at the end of the evening, an account of the position of pharmacy under Australian regulations and some experiences of women there since they first took up this work.

Blackpool.—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held at the Palatine Hotel on December 6. Mr. D. J. Bailey was in the chair, and there were sixteen members present. Mr. Alan Davies was elected a member. It was announced that Mr. J. Rymer Young would be present at the annual dinner on January 29. A special committee was formed to meet the local Insurance Committee when occasion for such meeting arose. The committee consists of Messrs. Boothroyd, Huddart, Johnson, Laurie, Lowe, Sankey, and Turner. The holidays to be observed during Christmas and the New Year were fixed as follows: Close on December 25 and 26, also on January 1 and 2, attendance on these days being as on Sundays. The half-holiday falling on December 18 to be suspended. The resolution passed earlier in the session deciding to discontinue the practice of opening for two hours in the evening of the early-closing day was rescinded, because of the near approach of the day on which the medical benefit under the National Insurance Act will come into operation. The committee of the Association were deputed to make arrangements for the annual dinner.

Chesterfield.—A meeting of the Chesterfield Pharmacists' Association was held on December 10 at the Hotel Portland. Mr. Geo. Wright (President) was in the chair, and there were also present eleven members and Mr. J. H. Toplis (Hon. Secretary). The Christmas Holidays were discussed, and it was decided to close on Christmas Day, Boxing Day, and New Year's Day for the whole of the day. A report was given by the Hon. Secretary on the progress of the Derbyshire Pharmaceutical Association, and a letter was read from the Secretary of that Association urging every chemist in business to become a member. The remainder of the evening was spent in a useful discussion of the National Insurance Act and its probable effect on the trade in general, especially in regard to the regulation respecting the one-mile limit for dispensing.

Great Yarmouth.—A meeting of the Great Yarmouth Pharmaceutical Association was held on December 3, Mr. W. G. Poll (President) in the chair, seven members and Mr. A. E. Richmond also being present. The date of the meeting had been altered to allow members to attend the district meeting at Norwich on December 5. It was decided to become affiliated with the Local Traders' Defence Association.

Leeds.—An organisation meeting was held at the Great Central Hotel, Leeds, on December 11, when about 200 chemists were present. Mr. P. F. Rowsell was in the chair, and addressed the meeting. He was followed by Mr. F. Pilkington Sargeant, and at the close both speakers received a vote of thanks. A private conference was held in the afternoon, when questions were asked and answered.

London.—The second of a series of pharmaceutical district meetings in England under the Pharmaceutical Society's scheme of federation was held at the Holborn Hall, Gray's Inn Road, London, on December 4, under the chairmanship of Mr. C. B. Allen, the President of the Pharmaceutical Society (see *C. & D.*, December 7, index folio 860). There were between four and five hundred representative pharmacists from the Home Counties present, and the Chairman was supported by the Vice-President and Treasurer of the Society, together with Messrs. Currie, F. J. Gibson, Neathercoat, Rogers, Sargeant, and T. A. White, members of Council; the Secretary, Mr. Bremridge; the Local Associations Officer, Mr. Woolcock; and the Parliamentary Secretary, Mr. W. S. Glyn-Jones, M.P. The following representatives of Associations were also on the platform: Messrs. G. A. Tocher (London), J. Keall (South-West London), R. L. Whigham (Middlesex), A. Higgs and W. H. Fowler (Surrey), C. E. King and D. W. E. Barker (Herts), A. E. Hobbs and J. E. French (Kent), J. H. Matthews and G. H. Haywood (Essex), G. B. Osborn (Berks), and H. E. Young (Bucks). After speeches by the Chairman and others, as noted last week, the following resolution was moved by Mr. A. E. Hobbs (President of the County of Kent Association of Pharmacists), seconded by Mr. J. Keall (President of the South-West London Pharmacists' Association), and carried unanimously:

That this meeting heartily approves of the steps taken by the Pharmaceutical Society and the Pharmaceutical Standing Committee to secure the carrying into effect of the principle enacted in Section 15 (5) of the National Insurance Act, and pledges itself to support the policy of the Society and the Committee in connection with the local administration of the Act.

Mr. J. H. Mather (Secretary of the Guildford Pharmacists' Association) moved the following resolution, which was seconded by Mr. W. H. Fowler (Secretary of the County of Surrey Association of Pharmacists), and carried unanimously:

That this mass meeting of pharmaceutical delegates representing the pharmacists of London and the Home Counties enters the very strongest protest against the proposal that payment for pharmaceutical services under the Insurance Act shall be subject in certain eventualities to discounting, and authorises the Pharmaceutical Standing Committee to oppose any such proposition in connection with the fixing of a scale of prices.

A vote of thanks was accorded to the Chairman, on the motion of Mr. E. T. Neathercoat, seconded by Mr. T. A. White.

London (E.).—A meeting of the East London Pharmacists' Association took place at the Limehouse Town Hall on December 5, the President (Mr. G. W. Hatfield) in the chair. After the ordinary business had been concluded, Mr. E. T. Neathercoat (Chairman of the Local Associations Committee of the Pharmaceutical Society) gave an address, in the course of which he explained the pharmacy section of the National Insurance Act. A vote of thanks was given to Mr. Neathercoat, on the proposition of Mr. Keith, seconded by Mr. Hines.

London (West).—A meeting of the Western Pharmacists' Association (of London) was held at the Restaurant Frascati, London, W., on December 11, with the President (Mr. C. T. Allen) in the chair. About fifty members were present. Over sixty new members were proposed, bringing the total membership up to 300. The Chairman announced that district meetings under the auspices of the Association had been or were to be held in each of the eight boroughs comprising the area covered by the Association. A mass meeting of the Association would have to be held before the end of the year to consider the advisability of going on the panel of chemists under the National Health Insurance scheme. Dr. Browning, bacteriologist at the Royal London Ophthalmic Hospital, gave an address on *Vaccines and Serums*. The lecturer's exposition was delightfully lucid, his trenchant remarks being closely followed. After dealing with infection, active immunisation by vaccines, which were said to closely follow nature, was described. Dealing with the question of stock *versus* autogenous vaccines, it was stated that most success had been achieved with the former as regards staphylococcal and gonococcal vaccines, but every vaccine should be autogenous if one can get it. *B. coli communis* vaccine must be autogenous. In all cases vaccines must be supplemented by rational treatment. The preparation of *Staphylococcus pyogenes aureus* vaccine was given in detail. Passive immunisation by means of antitoxic sera followed. The preparation of diphtheria antitoxin was described. In streptococcal infections, such as puerperal fever, the ideal treatment consisted of using both sera and vaccines, the former giving immediate relief and the latter removing the cause. Tetanus antitoxin had come into disfavour through being badly used. It must be injected into the cerebro-spinal canal. The drawback of sera treatment is that it may not be specific for the organism infecting the

patient; on that account it is always advisable to mix as many brands as possible. Tuberculin tests were gone into, the diagnostic test with old tuberculin and Calmette reaction being favoured. Van Pirquet's and Carl Woodcock's tests are not specific for persons over three months old, as they do not distinguish between old and new tuberculous lesions. Tuberculin T.R. is the best for treatment. The Wasserman reaction for syphilis concluded the lecture. In the discussion which followed the Chairman said he hoped to see the time when bacteriological questions would be asked in the Minor examination. Dr. Browning, in replying to Mr. J. D. Marshall, said the necessity of elaborate equipment and a licence for vivisection cut out the possibility of pharmacists doing a great deal of bacteriological work.

Manchester.—About forty members of the Manchester, Salford, and District Chemists' Assistants' Association met in the Pharmaceutical Department of the Manchester University on Wednesday evening, December 4, where the President (Mr. Jas. Grier, M.Sc.) arranged an exhibition of apparatus suitable for the requirements of retail pharmacy. After they had inspected these he gave an address, entitled *Dispensing Problems*, in which he dealt chiefly with incompatibility. A discussion took place on the points raised, and prescriptions were handed in and their peculiarities explained. The recommendations of the committee with regard to the *Prize Competition* for the "Remington's Pharmacy" offered by Messrs. Burroughs Wellcome & Co. were explained to the meeting and approved. The competition will take place in March, and particulars will be published before the next meeting on January 15, 1913, when Mr. B. G. Hough, F.C.S., will give a lecture on "Food and its Relation to the Body."

Northampton.—Mr. George Ingle presided at a meeting of the Northampton and District Chemists' Association held at the Black Boy Hotel, Northampton, on Tuesday, December 3. Eight other members were present. A letter of thanks was read from the widow of the late President (Mr. W. Gatehouse), and it was decided to place on the minutes a record of deep regret regarding the loss to the Association through his death. A debate was created by the receipt of a letter from Mr. H. M. Beattie, Secretary to the Northampton Insurance Committee, requesting the members of the Association to state prices at which they would be prepared to supply cod-liver oil, Angier's Emulsion, Sanatogen, and other articles for Sanatorium Benefit patients. The members seemed to be in doubt as to giving prices. The discussion merged into *Medical Benefit Dispensing*, Mr. North raising the question of price fluctuations, and, speaking about the 1s. 6d. per capita, said that pharmacists need not trouble about the exact figure, as the allowance is calculated on the whole of the insured persons, only a proportion of whom would require the medical benefit. If the chemist's bill came to more than the stipulated amount, he (Mr. North) felt sure the authorities would meet it. In connection with the Insurance Secretary's letter, he called attention to the inclusion of proprietary articles. He thought the B.P.C. formulæ should be supplied, and the meeting decided that the Secretary should send a list of prices as follows:

Cod-liver oil, 1s. per pint.
Extract of malt, 9d. per lb.
Extract of malt and cod-liver oil, 10d. per lb.
Cod-liver oil emulsion, B.P.C., 1s. 4d. per lb.
Petroleum emulsion, B.P.C., 1s. 6d. per lb.
Angier's Emulsion, 1s. about 3-oz. bottle; 2s. 3d. about 7-oz. bottle; 3s. 9d. about 15-oz. bottle.
Sanatogen, 1s. 9d., 2s. 8d., 4s. 9d., 9s.
Bottles to be charged extra.

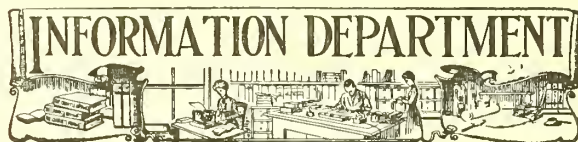
The meetings of the Association will in future be held at Franklin's Hotel, Northampton.

Norwich.—An organisation meeting of chemists of the Eastern Counties was held at Norwich on December 5. The private meeting took place in the afternoon in the Lecture Hall of the C.E.Y.M.S. Mr. C. B. Allen (President of the Pharmaceutical Society) was in the chair, and addresses were delivered by Mr. A. S. Campkin and Mr. W. J. Ugrow Woolcock (Organising Officer). This was followed by a public meeting in the evening, at which Mr. A. S. Campkin presided. About sixty chemists were present from Norwich and district. Resolutions similar to those approved at the London meeting were passed. Before the evening meeting a dinner, at which thirty persons were present, was held at the Castle Hotel, with Mr. Percy Robinson in the chair.

Nottingham.—A meeting of the Nottingham and Notts Pharmaceutical Association was held at the Victoria Station Hotel on December 11, with Mr. C. F. Carr (Vice-President) in the chair. There was a good attendance. A discussion on the National Insurance Act was opened by Mr. E. S. Waring, and in it many of those present took part.

Paisley.—Mr. Fraser presided at a meeting of the Paisley and District Pharmaceutical Association held on Tuesday, December 10. Mr. Scorgie read a paper on the Social or Public Aspect of the Pharmacist's Life, which was greatly appreciated by the members. A representative of the Junior Assistants was present with a proposal to have a social and dance in February. Other business was arranged, and it was intimated that the President and Secretary had been invited to the meeting of the Pharmaceutical Standing Committee in Edinburgh on Wednesday, December 11.

Sheffield.—Mr. J. F. Eardley (President) took the chair at a well-attended meeting of the Sheffield Pharmaceutical and Chemical Society held on December 11 at the rooms of the Literary and Philosophical Society. A lecture on *First-Aid Work* was given by Dr. J. Clarke, of Rotherham.



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INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries:

- 152/51. "Poi," a food: supply.
- 152/24. "Mentholazene": supply.
- 153/25. "Corn Crisps": suppliers.
- 155/38. Huxham's pills: suppliers.
- 153/37. "Scorcher" razor-stripper.
- 153/18. "Flasholet" leather-reviver.
- 153/18. "Velvetta" cream: makers.
- 153/62. Bailey's cotton wools: makers.
- 152/73. "No Flies Here" (in 1-gal. tins).
- 152/28. Lyons' "Konvallo" tooth-powder.
- 153/61. Haydock's (not Haycock's) pills: makers.
- 146/21. Critchlow patent massage-brush: supply.
- 146/21 and 154/50. "Cambard Infusers": supply.
- 144/10. "Amel" jelly: present address of makers.
- 153/60. McArdlo's "Bark de Panama Universal Cleanser."
- 142/21. James's condition-powders for dogs: address of proprietors.
- 134/40. Address of Morlox, Ltd., makers of "Madame Louise's Complexion-soap."

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to the makers or sellers of the following articles. The information will be repeated to other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- | | |
|---|--|
| Abbott Alkaloidal Co.'s goods, 155/5 | "Javal" hair- tonic, 148/24 |
| Acetone soap, 150/69 | Jewellers' chalk, 154/57 |
| "Ajax" syringe, 150/37 | Liebrich's eye-shades, 143/63 |
| Ako, 152/240 | Limanol, 155/28 |
| "Aldoreen" tooth-powder, 153/60 | Martin's hair-dyes, 158/2 |
| Benzole (for export to Central America), 148/7 | Massage rollers (celluloid), 150/50 |
| Blair's gout-pills, 153/37 | Mercuroil, 152/25 |
| Bowditch's tooth-powder, 142/21 | Merson's Wonder Cure (for epilepsy) |
| Bowker's specialties, 152/24 | Mitchell's (Dr.) formalin mint tooth-paste, 150/50 |
| Cavallier freres perfumery, 152/19 | Monopole soap, 148/21 |
| "Ciro" muff-warmers, 151/15 | Mouches de Milan, 148/2 |
| Coles preparations, 152/24 | "O. S." tooth-blocks, 153/36 |
| Cross's (Madame) beauty-cream, 148/200 | Pearson's ozonators, 155/500 |
| Dental-plate brushes (London makers), 153/19 | Phenalgol, 154/18 |
| Du Barry's Revalenta, 149/45 | Salter's dental floss, 153/63 |
| Encerin, 150/25 | Sarg's toilet specialties, 148/24 |
| Folding cardboard boxes, printed (French inquiry), 151/50 | "Securinine" hair-wash |
| Gloss, 148/2 | Shaw inhaler, 153/64 |
| Haycock's gout-pills, 153/61 | Succotash, 141/13 |
| Hilger's chemicals, 150/30 | Synthetic milk, 148/15 |
| Irol, 152/25 | Tetrapole soap, 148/210 |
| | Thyrocol, 155/31 |
| | Trade-mark registration agents, 153/2 |
| | Trower's pig-powders, 153/5 |
| | Walter's hair-soles, 152/27 |

OBSERVATIONS & REFLECTIONS

By Xrayser II.

As 13 is to 4,

so is the doctor to the pharmacist. This formula gives us in the terms of a rule-of-three sum the apparent relative monetary value of the medical profession and our own craft under the Insurance Act. The actual proportion of our remuneration to that of the doctor cannot, however, be quite so definitely stated. Leaving out of the account such nice considerations as the comparative cost of his education and ours, the comparative effective value of his and our services, what is due to his superior social position and greater responsibility, and "all that the world's coarse thumb and finger fails to plumb," the more material facts of the actual outlay in time and money necessary in his work and in ours remain to be determined. The doctor will no doubt expend more time over his patients than we, and he is perhaps entitled to a higher rate of pay per hour, but he does not lay down money for the minutes he consumes over a case as we do for our drugs, he has no dead stock to reckon for, and he requires much less capital with which to carry on his practice. I am afraid I have been betrayed into a very low and unworthy line of argument, and I will not push it further; but, contrasting the doctor's position under the Act with our own, I think he has every reason to be satisfied with what is offered him.

Mr. Sambrook's and Mr. Jackson's Figures

were only referred to incidentally by me for the purpose of showing that they do not afford us any solid basis for an estimate of the average cost of Insurance dispensing, and as both gentlemen apparently think that we have no such basis—for they both proceed on suppositions—the matter may rest there. I should like, however, in the interest of those pharmacists to whom even a very small increase of income is a desideratum, to say a word more upon one of these suppositions. The crucial point is the tariff; if we are sure of a reasonable profit on every prescription, etc., we supply, questions of percentage are only of importance if the proportion of prescriptions to the number of insured persons is likely to be such as would make the total cost of supply exceed two shillings per head. In considering this possibility we have at least two facts to guide us: the vast majority of the insured will be workers, and hitherto insured workers have not, as a rule, been in any hurry to "go on the club." Mr. Jackson thinks a much larger percentage than formerly will now do so, but I am of exactly the opposite opinion. It is the most

Self-respecting Members of Clubs

who are the last to give up work and wages for the receipt of sick-pay, and surely the economic and moral status of the newly insured will be equal to that of the old club patient. A man earning two or three pounds a week will be less likely to exchange this for ten shillings and a bottle of physic than one earning a precarious fifteen shillings or so. In the future, as in the past, the insured person will frequently "doctor" himself, or ask the pharmacist to do it, unless he is really too ill to work, and will fight shy of the medical man for fear of being told that he is so. We shall no doubt lose some trade of this kind by the Act, but it will not, in all probability, be sufficient to counterbalance what we shall gain. As the time is now short in which the first list of pharmacists on the panels has to be formed, these considerations, suppositions though they be, are urgent. I may add that they are founded on a good deal of experience among the class who will form the bulk of insured persons.

The German Prices

for prescriptions compare very favourably with those usually charged in this country to-day; indeed, they would in many cases seem to be as favourable to the pharmacist as the good old-fashioned prices ruling in the days of my apprenticeship. So far as I can make

out, a mixture containing potas. bromid., sacch. ust., and water to 8 oz. would be charged 11d. in Germany, and the German apotheker can well afford to give 25 per cent. off to sick-club members. It is interesting to observe the profit allowed in Germany on proprietary preparations—namely, 60 per cent. on wholesale price where whole packages are prescribed, and 120 per cent. where bulk is broken. For instance, a 2-oz. original bottle which cost 1s. 3d. would sell at 2s., while 2 oz. of the same mixture from a bottle costing 10s. per pint would be charged 3s. 3d. In neither case a very fair return is obtained. The obvious effect of doubling the profit on broken bulk no doubt stimulates proprietors to put up their specialities in small containers so as to avoid the necessity of breaking bulk. I should not be surprised if some similar procedure would be followed here, and that many of the favourite specialities now sent out in pint quantities will be packed in 2-oz. phials at prices that will enable them to be prescribed for Insurance patients, so as to minimise expense and thus obviate the risk of the doctor being charged with "excessive ordering of drugs."

The Sale of Morphine and Cocaine

and other habit-forming drugs without a doctor's prescription is in many parts of America illegal, the Toronto cases reported by you being evidence of how the law stands in Ontario. But even the doctor's prescription is not always inviolate, for in Vancouver a medical man has been fined for giving a prescription for cocaine to a patient who did not require the drug as a medicine. Taking these reports in conjunction with your editorial article on the Opium Convention, I cannot help wondering whether we in this country are tending in the same direction as our Canadian *confères*. I do not think that the average consumption of opium and cocaine is as great as, on the one hand, in the Far East, where opium is regarded by many natives as a necessity of daily life quite as much as rice, or, on the other, in the United States, where the rush and hurry of business life lead to a nervous restlessness through which the victim falls an easy prey to the seductive influence of the drugs mentioned. Admitting that we are not so much addicted to the drug habit, we are still bad enough, and I shall not be at all surprised if one of these days a grandmotherly Government passes some "social" legislation specially for the benefit of those weak-willed men and women who cannot withstand the "craving." When that time comes the chemist, as usual, will bear the brunt of the attack; my advice is to keep as clear of this particular business as we can, and we shall be the less disturbed by the new laws should they come along.

What is a Carboy?

The question is suggested by the one put to you last week with respect to the origin of the show-carboy of our shops. I have been surprised to find that none of the many dictionaries I have been able to consult, from Minsheu's to Sir James Murray's, knows anything of the word "carboy" except as applied to the old green glass bottles in baskets, chiefly used for holding acids and other corrosive liquids. Even as used in this sense it is not an old word. None of the earlier dictionaries has it, and the first mention of it quoted in the Oxford one is from Kaempfer (1712), who uses it in the form *karaba*, as the name of a vessel in which wine was exported from Persia. The native Persian name is *qarabah*, meaning a large flagon. Hanway, some forty years later, speaks of "Karboys of Ispahan wine," and Symes, in 1800, of "Corabahs of Rose Water," after which date "carboy" is the form usually met with; but the curious fact is that the scholars who compile our dictionaries both here and in America seem never to have heard of our shop carboys. The earliest specimens of these I remember to have seen must, I should say, have been considerably older than last century. They would hold perhaps about a gallon, were rounder and squatter than the "pear-shapes" of my own date, and had gilt figures (alchemical symbols, I suppose) upon them. This was in an old shop in Liverpool.

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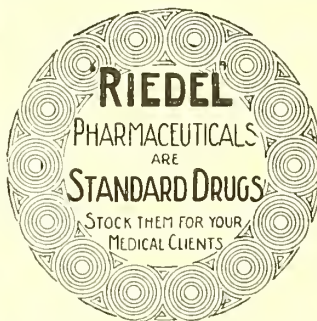
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Best Cleaned LINSEED	27/cwt.	Finest Pure STARCH POWDER	22/cwt.
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Editorial Articles.

November Trade.

THE Board of Trade Returns for November show that the improvement in our overseas business is well maintained. The imports for the month rose by 5,601,059l. to 70,995,218l., and the exports of British goods only, rose by 2,371,996l. to 43,358,387l., while re-exports of imported goods rose by 1,797,107l. to 9,631,336l., making a total increase in the three sections of about 9,800,000l. In regard to the eleven months of 1912 we now get the following remarkable figures:

	Jan. to Nov. 1911	Jan. to Nov. 1912	Increase
	£	£	£
Imports ...	615,447,516	670,883,764	55,436,248
Exports ...	415,710,581	445,974,964	30,264,383
Re-exports ...	94,040,950	102,595,998	8,555,048
	1,125,199,047	1,219,454,726	94,255,679

Over four-fifths of the November increase is due to raw materials, 2,988,697l. more being for cotton alone, although the increase in value was much greater than the relative increase in quantity. Dutiable food fell by 1,470,994l., the bulk of this being due to cheaper sugar, the decline on this item alone being 1,331,417l., whereas the quantity received was very slightly less. Oils, fats, gums, and the like declined by 150,509l., and among manufactured goods, chemicals, drugs, dyes, and colours exhibit an increase of 144,585l., the value for the month being 1,171,025l. Unenumerated chemicals account for 64,653l. more; tanning substances

were up 40,321/., glycerin 2,553/., tartaric acid 5,953/., and dye-stuffs 11,346/. The largest decreases applied to miscellaneous chemicals by 34,529/., painters' colours and pigments by 11,439/., cream of tartar by 9,254/., brimstone by 6,992/., and boron-compounds by 3,532/.

The November increase in exports is divided between manufactured goods 1,369,998/., raw materials 852,973/., and food, drink, and tobacco 182,884/. By far the largest increase was in coal, this representing 818,879/., more, and the increase in value was relatively greater than the increase in quantity, showing that foreign consumers had to pay more. Of chemicals the exports were 95,594/., greater, at 1,773,978/.; declines were noticeable in bleaching-powder by 30,470 cwt. (particularly to U.S.A.), copper sulphate by 643 tons, and glycerin by 4,584 cwt. Coal products, not dyes, advanced by 23,517/., to 215,763/., and soda-compounds from 649,931 cwt. to 673,814 cwt.; but the value declined by 10,000/., this being partly due to the lower prices for alkali and a decline in the exports of soda crystals and caustic soda. Large increases took place in sulphuric acid and tartaric acid by 9,506 cwt. and 1,338 cwt. respectively; while in the section comprising drugs and medicines the exports amounted to 212,695/., or 13,474/., more. Quinine declined by 53,559 oz. to 83,395 oz., and on the eleven months there is a decrease of 330,000 oz.

Our 1913 Diary.

WE have before us an advance copy of what we may call the Home Edition of *The Chemists' and Druggists' Diary, 1913*, the delivery of which to subscribers in Great Britain, Ireland, and the adjacent islands will be commenced on Monday, December 16. To chemists in London and the large provincial cities and towns copies are being sent, paid to destination, by the Globe Express, Ltd., and copies for other places will go by parcel-post. With mails of the past three weeks we have been sending copies to subscribers abroad, in order that all should have the *Diary* in use by New Year's Day.

The *Diary* is the pioneer of such publications, and the forty-fifth of the series which we have published. The contents are of a nature which has during these years proved to be most useful and most often wanted day by day throughout the year; but not a single item in the editorial pages has escaped revision. Also every one of the 577 business houses who advertise in the *Diary* has prepared "copy" which in the form of the *Diary* announcements is calculated to assist buyers by giving ready reference and precise particulars of all kinds of goods required in pharmacy and the drug-trade. Many of the advertisements show a remarkable advance in design and utility, but as we are again offering ten guineas in prizes for opinions on these among other points in the advertisement pages, we must reserve comments on this subject. The questions we are setting on this occasion are as follows:

1. Vote for your favourite business house among those mentioned in the index to advertisements, pp. 171 to 174.
2. Name another favourite business house whose name does not appear therein.
3. Mention the advertisement in the *Diary* which you think should be most profitable to you.
4. Which house advertises in the most artistic manner in the *Diary*?
5. What speciality advertised in the *Diary* do you find most popular?

As formerly, the answers have to be written on the coupon postcard inserted in each copy of the *Diary*, the second coupon card being used for pithy sentences about

something pertaining to pharmacy from any words in the *Diary* advertisements. Before leaving this subject of advertisements, we may note that the Buyers' Guide to them occupies from p. 179 to p. 191 inclusive. This is, of course, entirely new from year to year. Every advertisement is scanned, and on the present occasion the Guide contains 7,821 separate entries. This Guide is a veritable Information Department for every chemist who has the *Diary*. We have observed with gratification the continued trade appreciation of our Information Department at 42 Cannon Street, which is always willing and prompt in answering inquiries. There is no rule in the Department such as "Look first in the *C. & D. Diary* Buyers' Guide," but it is a maxim which every business man should have in front of him.

As 1913 is the Jubilee year of the British Pharmaceutical Conference we have signalled it in our *Diary* by inserting on the working days of the week between p. 340 and p. 405 quotations from the Presidential Addresses delivered at the annual meetings of the Conference. We append half-a-dozen examples:

The doctrines of Free Trade do not apply to pharmacy.—*Atfield*, 1883.

Pharmacy is sometimes regarded as the fourth estate of medicine.—*Martindale*, 1891.

Alcohol free of duty for medicinal purposes . . . is a most serious and urgent necessity.—*C. Umney*, 1889.

It is not the province of any pharmacist to call in question the therapeutic value of any medicine.—*Greenish*, 1886.

The manufacturer has become the prescriber, the medical man the dispenser, and the pharmacist is out of it altogether.—*Benger*, 1888.

I have no wish to utter any sentimental nonsense about the "good old times," for I do not believe they were better than the present.—*Atkins*, 1887.

There are fulfilled prophecies in many of the quotations; some statements are obviously the momentum of the moment—that curious force in man which makes him deduce from the opinion of the day what will happen a generation after; but all are stimulating to thought, and we trust they will be helpful in business. It would be interesting to know how many of our subscribers or their staffs can trace the above quotations in the *Diary*—i.e., the date on which they are given. Write the six on a postcard, with the dates, and send to us not later than Monday, December 23. We shall give two copies of "Pharmaceutical Formulas," two of "The Art of Dispensing," and two of "The Chemist-Optician," to the first received correct replies. Cards from London and the counties of Essex, Middlesex, Hertford, Kent, Sussex, and Surrey will be handicapped to the extent of twenty-four hours, when judging the results. Again, in sympathy with the British Pharmaceutical Conference, we include in the *Diary* a "Practice Section," in which the following distinct treatises occur:

New Remedies of 1911-12.

"Posters for Window Displays": how to make them.

"Ships' Medical Scales" as recently revised by the Board of Trade.

Japanese and British Pharmacopœias compared in a series of tables.

"Weight Tables," showing the weight of liquids to the gallon and W.Q.

"Pharmaceutical Formulas" for known, admitted, and approved remedies.

"National Insurance Act": particulars as to the Insurance contributions and medical benefit.

"Provincial Hospital Pharmacopœias," being a second selection of formulas, with those of the Liverpool Infirmary Pharmacopœia.

"Retinoscopy Simply Explained," being an illustrated chapter in optics supplementary to "The Chemist-Optician," with a complete list of members of the Society of Chemist-Opticians.

There are other things in this Practice Section, but the above suffices to show the nature of the fare. Much,

indeed the greater part of the Editorial contents looks the same from year to year, because it deals with the same subjects. It may interest subscribers to know that this is the more expensive and more exacting part of the contents, because it takes up most time and involves much labour and correspondence with experts and others "in the know." The section devoted to Associations and Societies, for example, has been corrected up to November 9. Compared with 1912 we find that there are 181 local Associations in the list, of which 73 are new. In connection with these there are 125 new Presidents and 99 new Secretaries whose names are duly recorded, and with the other items hundreds of corrections or entries have been made. Similarly, on the page of 84 Pharmaceutical Societies (p. 201) 9 are new, and 77 alterations and corrections have been made on the old. The list of physicians and surgeons which begins on p. 204 contains the names and addresses of 672 London doctors, who between them hold 1,195 honorary appointments at Metropolitan institutions. Each name, address, and appointment requires to be checked, and in the process 52 names were added and 26 removed; while in the addresses and names something like a hundred corrections were required. The alterations in the hospital appointments numbered 235. Similar statistics could be given in respect to every page following these. In revising and rewriting all the legal matter placed under "The Chemist's Lawyer: Trade Statutes put Pithily," we have been assisted by lawyers and administrative experts, and many improvements have been introduced, including notes and references to cases decided during 1911-12. In dealing with the law as to labour in retail shops we give the complete text of the Shops Act, 1912, with annotations and interpretations. There is a good deal more in the *Diary*, as our subscribers will see for themselves.

Insurance Act Dispensing.

WITH the publication of the revised Regulations for the administration of medical benefit, and the meeting on Friday, December 6, of the Pharmaceutical Standing Committee (England, Scotland, and Wales), the penultimate stage of the dispensing negotiations came to an end, and the retail drug-trade of Great Britain now enters the final stage, the scene being shifted from London to more than a hundred local centres. The burden of the work to be done thus falls upon chemists' local organisations, and it is they who have to confer with the Insurance Committees of their districts as regards the terms upon which dispensing under the Act shall be done.

Before going further into this, it is necessary that we should acknowledge, with gratitude on the part of

chemists and druggists generally, the work done by the pharmacists who constitute the Pharmaceutical Standing Committees of the three countries, and those

of them who have served on the International Committee, as well as the still smaller number who have served on the Advisory Committee, thus coming into contact, doubtless conflict occasionally, with Commissioners charged with plenary powers. There is not, and will not be, any public record of the time put in and the work done by these gentlemen in Insurance Act matters during the past eight months. Their negotiations with the Commissioners and other Government representatives have been from beginning to end of a confidential nature, so that of necessity little or nothing could be reported, and the silence has been irksome to the trade. There has been no lack of

rumours that were trying to the patience, and even the pharmaceutical representatives, with their full knowledge of what was going on, were never free from fear that the Commissioners might be forced by expediency to provide by regulations for medical practitioners to dispense for their own or any patients. The measure of the service of the pharmaceutical representatives is in the result—the official declaration that we received from the Insurance Act headquarters as we were going to press last week, viz.:

The Act precludes the Commissioners from giving dispensing generally to doctors on the panel.

Everything else achieved is subordinate to this declaration, whose full import it is not possible for pharmacists of the present generation to conjecture. From this standpoint the representatives of pharmacy have had an opportunity rare in the annals of pharmacy, and the uppermost thought must be that they have used it honourably.

We were able to print in our issue of December 7 the revised Regulations for the provision of drugs and appliances, as well as those bearing upon the payment of the drug bills, besides other information issued by the Insurance Commissioners while we were going to press. This prompt publication has been of special service to the trade, and the week in which they have had to consider them relieves us of the necessity for comment upon the Regulations. The principal changes made since October are:

(1) The Commissioners have declined to accede to the demand of medical representatives to allow prescribers under the statute to dispense medicines for insured persons except in rural areas, and in these a minimum distance limit of a mile between the patient and the nearest chemist is a condition for the prescriber dispensing for his own patients. (Regulation 30.)

(2) Pharmaceutical Committees are associated with Medical Committees in settlement of questions arising from the charges of medicines prescribed and dispensed in excess of 2s. per insured person. (Regulation 46.)

These provisions leave pharmaceutical chemists, chemists and druggists, firms of such, and limited companies the only traders who may be placed on dispensing panels, the conditions specified in the Act being observed, viz.:

The regulations shall prohibit arrangements for the dispensing of medicines being made with persons other than persons, firms, or bodies corporate entitled to carry on the business of a chemist and druggist under the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, who undertake that all medicines supplied by them to insured persons shall be dispensed either by or under the direct supervision of a registered pharmacist or by a person who, for three years immediately prior to the passing of this Act, has acted as a dispenser to a duly qualified medical practitioner or a public institution. [Section 15 (5 iii).]

The latter condition as to persons dispensing is embodied in Regulation 29 in the same language; but the first condition embraced in the words of the Act, "entitled to carry on the business of a chemist and druggist," is even more important, for it means that dispensing cannot be done in a shop which is not managed by a chemist and druggist. *Section 3 of the Poisons and Pharmacy Act, 1908, must be strictly complied with by those who undertake Insurance dispensing.*

Although criticism of the regulations and refusals to work the Medical Benefit provisions are still in the air,

it may be taken for granted that the provisions will begin on January 15, 1913. The medical work is to go on, and arrangements are being made for it independently of the British Medical Association. Up to last

week chemists were waiting for the doctors; the position is now reversed, and chemists are to go FULL SPEED AHEAD! The Pharmaceutical Society's Organisation Committee has issued this week to the Secretaries of all the Chemists' Associations full instructions:

First, as to the formation of dispensing panels. Every person, firm, and body corporate in the area covered by each Association will be asked by the Secretary to say whether or not they desire to go on the panel. A postcard is sent for this purpose, and *the reply should be prompt*, as Insurance Committees are issuing invitations to doctors and pharmacists to-day (December 14).

Second.—The list of persons, etc., for the dispensing panel will or should be sent by the Association Secretary to the Insurance Committee by Wednesday, December 18. Any who fail to communicate with the Association Secretary will have to act for themselves. The dispensing panel will be closed on December 31.

Third.—Having placed the list of chemists, etc., before the Insurance Committee, the local Association will propose to negotiate with the Committee as to the terms for the supply of drugs, medicines, and appliances, a tariff being submitted; and if the Committee agree to the terms the Association Secretary will get the agreement forms signed by his colleagues.

The scheme which we have thus briefly outlined is calculated to facilitate the arrangements, and to relieve chemists, etc., of a lot of trouble which they would have if they acted individually.

As to the long expected tariff, a copy of it is being sent to every person, firm, and body corporate lawfully carrying on business as a chemist and druggist in Great Britain. It is not to be otherwise published. There has been some conjecture and many rumours in regard to the tariff, and it is desirable that there should be no misunderstanding about it now that it has been issued, and we therefore call particular attention to the following points:

(1) The tariff was drafted by the Pharmaceutical Standing Committee, discussed by pharmaceutical representatives with the Insurance Commissioners, and was adopted unanimously by the Pharmaceutical Standing Committee on December 6.

(2) The Insurance Commissioners, not being in a position to make or approve a tariff of prices, have by Regulation 23 empowered the Insurance Committees to prepare a list of the prices upon which the sums to be paid for the drugs ordinarily supplied and for the prescribed appliances are to be calculated.

(3) The tariff follows the Continental system of a separate charge for each ingredient in a prescription, with an added charge or charges for the operation of compounding (skill and time) on the basis of 2s. per hour of continuous work.

(4) The medicines in the list are selected from the British Pharmacopoeia, plus a few, such as Unna's zinc-paste, which are well-recognised unofficial remedies. Prescribers will not, of course, be confined to this list; they may order anything they like in reason, and it will be charged for according to the scale upon which listed articles have been priced. As an example of the charges for compounding, we may say that for mixtures, paints, gargles, lotions, liniments, and all liquid preparations for internal and external use up to and including 8 oz. the fee is 2d.; above 8 oz., 3d.; and if an emulsion, 2d. extra. The fees for making pills, capsules, powders, ointments, suppositories, plasters, and blisters differ, being as a rule higher.

Taking the last of the foregoing points first, it will be noted that the rumoured uniform dispensing-fee of 2d. does not exist. In considering the tariff one has to keep in mind the fact that the National Insurance Act is an extension of the friendly society principle of insurance against sickness, and that the cost at which the equivalent of medical benefit has been given hitherto is a factor in fixing the prices at which it has to be done by chemists. We know that chemists in certain parts of the country will suffer immediate loss by Insurance dispensing: that, unfortunately, is an accompaniment of all class legislation; but we do not know any other means than that now proposed by chemists' representatives whereby the new service can be started with greater fairness to all persons

concerned. There is not a fortune in it for any chemist; in short, the tariff has to be considered as a business expedient to facilitate chemists within the area of each Insurance Committee getting into business relations expeditiously with such Committee. Without it there might be endless haggling, the time for which is past, as the pharmaceutical representatives have done the haggling, cajoling and the like with the Commissioners. It may be possible to improve the tariff, as imperfections are detected, but that matter must be for a later time. It has been drafted in the belief that the revised Regulations are final; also that the allowance of 2s. per insured person for medicines and appliances is final. The Pharmaceutical Standing Committee is unanimously of opinion that the distribution of this allowance according to the proposed tariff of charges will give, at a profit to chemists, a pharmacy service which should exclude the necessity for the State setting up in the near future a network of national dispensaries, which is the alternative that must be avoided. There are other alternatives not less objectionable, to which we do not refer in detail, for the thing to be done now is what the Organisation Committee has outlined as stated.

Government Chemists.

We have from time to time called attention to the dissatisfaction among Government chemists in regard to the manner in which some have been superseded by young chemists who have little or no knowledge of Customs and Excise matters. We learn that the Public Appointments Committee of the Institute of Chemistry have reported to the Council that they "have had under consideration the conditions attaching to chemical appointments under the Civil Service, and they find in some instances that the status of chemists employed is far from satisfactory." The Council, acting on the advice of the Committee, are to submit their views on these matters to the Royal Commission on Civil Service.

A Busy Man's Hobby.

Mr. Thomas J. Barratt, who is known to our readers as the managing director of A. & F. Pears, Ltd., has just produced a three-volume work entitled "The Annals of Hampstead." It is issued in a limited edition at the price of five guineas, and is full of illustrations. Mr. Barratt lives at Bell Moor, on the edge of the well-known Hampstead Heath, and he has for years been collecting material for the work which he has just published. In the eighteenth and early nineteenth century Hampstead had a considerable reputation as a health resort, and the water of its medicinal spring was sold in bottles in London. The water was chalybeate, like that of Tunbridge Wells. Gay and Pope took the waters for colic. The suburb has also many recollections of literary men, lawyers, and artists who lived there, so that there was plenty of material upon which to draw. Mr. Barratt's interest in the district is not confined to the antiquarian side, as in recent years he has been foremost in the acquisition of additions to the famous Heath—e.g., he purchased Golder's Hill in 1897 for 38,000l., and sold it to a committee at cost price. One of the illustrations is from a sketch by Phil May, and shows that artist telling a secret to the author. Those who have seen Mr. Barratt will have no difficulty in pronouncing this an excellent portrait. The book is a sumptuous one, but it would be out of place to refer further to its contents, the fact that makes it notable here being that a busy man such as Mr. Barratt (who, by the way, had his early business training in the drug-trade) can find time for such a delightful hobby.

Select Committee on Patent Medicines.

Appointed by the House of Commons to inquire into the sale of patent and proprietary medicines and medical preparations and appliances, and advertisements relating thereto.

Record of Evidence given on December 12.

AFTER an interval of a fortnight the Committee met again on December 12. There was a good attendance of the public. Mr. J. C. Umney was the witness during the morning sitting, which began by the Chairman reading out the Government Laboratory analysis of "Woodward's Gripe Water," and then asking Mr. Umney what he had to say. What Mr. Umney said about this was that the ingredient he had referred to on a previous occasion was not detected, but that the analyst had found an ingredient that is not used by the proprietors. There was an awkward moment until Mr. Umney offered to tell the Committee in private where the analyst had gone wrong. The room was cleared of the public, and fifty minutes afterwards, when the public was readmitted, the Chairman announced that he had arranged to send to the Government analyst the confidential particulars with which he had been favoured by Mr. Umney. The witness then had to answer questions regarding Kay's Linseed Compound, and next was examined by Dr. Chapple regarding Marza wine and the sale generally of medicated wines. After luncheon Mr. Hall gave evidence as to the uses of Hall's Wine. Sir Henry Norman presided, and other members of the Committee present were Mr. C. Bathurst, Mr. Cawley, Dr. Chapple, Mr. Glyn-Jones, Mr. Haydn Jones, Mr. Lawson, Sir P. Magnus, and Mr. Newton.

The Committee sat in private for some time, and it was nearly twelve o'clock before the public were admitted.

WOODWARD'S GRIPE WATER.

Mr. J. C. Umney having again taken his seat at the table,

The Chairman stated that the Committee had received an analysis from the Government Laboratory of Woodward's Gripe Water.

The analyses of the samples gave the following results—the figures are percentages by weights:

Alcohol	...	...	...	3.35
Sugar	...	...	...	18.87
Mineral constituents, chiefly sodium bicarbonate	...	...	...	0.92
Essential oils	...	...	...	0.04
Capsicum extract	...	...	...	a trace
Water	...	...	...	76.82

The mineral constituents in addition to sodium bicarbonate included magnesium, calcium, and potassium, amounting to 0.08. These are probably adventitious, and due partly to the sugar and partly to the water. The quantity of essential oils is too small for chemical discrimination; but the constituents, judging chiefly by odour, consisted mainly of the oils of caraway and dill.

It would be recollected, continued the Chairman, that the Committee had sent this preparation to the Government analyst because it was one of those mentioned by Mr. Umney in connection with which he challenged the analysis made by Mr. Harrison and supported by him before the Committee.

Turning to Mr. Umney, the Chairman said: "Now, Mr. Umney, there is the analysis which I have read and which I shall be glad for you to see if you wish. I have to ask you whether you desire to make any comment upon it?"

Mr. Umney: It is not more accurate than Mr. Harrison's. A particular ingredient has not been found, though certain ingredients have been found that are not there. It is, I think, a confirmation of my statement that these things cannot be determined rightly by chemical analysis.

The Chairman: Then your statement is that analysis, both official and unofficial, with the greatest skill and knowledge available, is inaccurate in some respects?—With the greatest skill and knowledge available?

Well, it is from the Government laboratory. I take it that that is the highest skill available to advise the Committee?—Yes, I suppose it is so.

Dr. Chapple: Do you mean chemical analysis?—I am astonished to see the statement that a particular ingredient has been found which is not there.

Then their skill and knowledge is at fault?—Mr. Harrison says certain things cannot be found by chemical methods, and my statement is that it must be detected by other means.

The Chairman: Mr. Harrison did not state it quite so baldly as that. He said it with some qualifications?—The statement is contained in the preface to "Secret Remedies" and "More Secret Remedies."

Mr. Newton: I understood that you expected the Government analyst to discover this particular ingredient?—I did.

Would you expect him to use the method of chemical analysis or the method of the trade expert?—It is difficult to say that. He would not have found it by ordinary methods of chemical analyses, but I should have expected that he would have found it by other methods open to him.

Mr. Glyn-Jones: You say that there is an ingredient present which you regard as of therapeutic importance, which neither analysis has disclosed. Do you say that of your own personal knowledge?—Yes.

How was it arrived at? Have you had it analysed in your own laboratory?—I have myself examined it, and I could taste and smell this particular thing.

Then there is sufficient of it for it to be detected by taste and smell by the person who is examining it?—Yes, certainly.

Mr. Newton: You have never actually seen any of this preparation put up and seen the ingredients put into the mixture?—No, I have not. I know what is in it from my own examination and from the report furnished to me. I am prepared to give the name of the substance by the permission of the proprietors.

The Chairman: I am rather at a loss for the moment to know the procedure to follow. We might, of course, get the name from you and submit it and your remarks now to the Government analyst, and ask for his comment?—I am quite prepared to do that.

Witness met a suggestion by the Chairman that the ingredient might not have been present in the particular sample analysed in the Government Laboratory, by saying that the company owning Woodward's Gripe Water has a great reputation to maintain, and sends out its preparations perfectly standardised.

The Chairman expressed the opinion that the Committee should consider the matter in private, and Dr. Chapple remarked that he saw no objection now to obtaining the name of the ingredient from Mr. Umney.

Mr. Umney: If the Committee would like to take the evidence in private I am quite prepared to give you privately a statement as to how the Government analyst has gone wrong.

"I think that would be interesting," said the Chairman, and, other members of the Committee agreeing, the public were requested to leave the room.

There was then an interval of about fifty minutes, and during the last part of the time the Committee asked Mr. Umney to leave the room. It was one o'clock before the public was re-admitted.

The Chairman: I have to state that the Committee has received certain statements made by Mr. Umney of a confidential nature, and that we shall submit them in an equally confidential manner to the Government analysts.

KAY'S LINSEED COMPOUND.

Mr. Cawley produced a bottle of Kay's Linseed Compound, and pointed out to Mr. Umney that the ingredients were stated on the label. He read these out, the list ending with morphine and chloroform. He added that this had been recommended to him as Kay's, and that he had been taking it for his cough. He asked whether the statement of the component parts on the label was not considered of some value, and would it not have some effect upon the sale. Mr. Umney replied that apparently it had, seeing that Mr. Cawley was taking it himself. (Laughter.)

Mr. Lawson read the analysis of the mixture given in "Secret Remedies," and when Mr. Cawley asked whether the statement on the label could be taken as fairly accurate, Mr. Umney pointed out that in the analysis no mention was made of senega, which was one of the principal ingredients, while the analysis stated that ipecacuanha is present, but there was no mention of it on the label. He thought this was a case which was rather against than for Mr. Cawley's contention that it is an advantage that the ingredients should be stated.

Dr. Chapple then questioned witness about Marza wine. He said that he did not think the statement of the quantity of iron and phosphorus in the wine had much effect upon the sale. It was intended to be a guide to the public, and to show that it really is a medicated wine.

THE BRITISH PHARMACEUTICAL CONFERENCE.

Dr. Chapple: You promised at our last meeting that you would come prepared to give us some information about the 70 per cent. of the Pharmaceutical Associations who replied in favour of placing the ingredients on the label?—You have all the particulars there.

One question sent out was whether they considered that there should be a compulsory declaration on the label of the principal ingredients of a proprietary medicine, and whether such a declaration would injure the sale of any proprietary medicine. I think 74 per cent. of the members replied in the affirmative, and 26 in the negative; that is to say, that 74 per cent. believe that the compulsory declaration of the principal ingredients would injure the sale of a proprietary medicine?—That is 74 per cent. of those who replied, but that is not 74 per cent. of the members of the Association.

Do you agree that it would injure the sale of proprietary articles to put the ingredients on the label?—I think it would not benefit the public, and it would do considerable harm to the patent-medicine trade.

The next question was that if injury would be done, would it be injury to legitimate proprietary medicines, or to quack remedies, sold very much above their value by means of specious advertisements. Sixty per cent. replied that the injury would be to the quack medicines. Would you regard with favour proposals for legislation that the ingredients should be placed upon the label? was the next question asked, and 74 per cent. replied in the affirmative, 24 per cent. in the negative, and 6 per cent. were doubtful?—I suppose you know who drafted the questions and sent them out?

Dr. Chapple: The suggestion I make is that retail pharmacists, though they think putting the ingredients on the label would injure proprietary medicines, are ready, or 70 per cent. of them are, to do that?—That is not a *pé biscite* of the pharmacists of this country. That was sent out to Associations, the members of which as a rule are in the larger towns and own the better-class businesses. If the questions were put to all the pharmacists in the country, that is not the kind of reply you would get.

Apparently it is because the dispensing chemists of the country are prepared to sacrifice any advantage to the public which comes through proprietary articles and to make a cheaper article themselves for sale to the public?—That particular inquiry was sent out as the result of a conference between a Joint Committee of the British Medical Association and British Pharmaceutical Conference. The suggestion which was then being considered was that medical men should prescribe and pharmacists should dispense. When the meetings were first arranged it was hoped that it might be possible to arrange that. Since then different conditions have arisen, and there now appears to be a desire on the part of medical men not only to prescribe, but also to dispense, and the conditions in existence when those questions were sent out are not in existence to-day.

Do you think the pharmacists suffer from the proprietary article trade?—They suffer, of course, most from medical men doing their own dispensing.

I quite agree with that. I am strongly convinced that doctors should confine themselves entirely to diagnosis, and leave to the chemist his legitimate work; but I suggest that the legitimate inference from these replies is that the professional pharmacists in this country would be willing to do away with proprietary articles, and to make and sell the same articles at a cheaper rate themselves?—I do not agree with that, for I say that a proprietary article made on a large scale is more likely to be uniform. I ask the Committee not to take these figures as the expression of the opinion of the pharmacists of this country.

EDUCATE THE DOCTORS.

Is there not great injury done by indiscriminate advertising and indiscriminate claims made for new drugs? Is

it not the case that there are sixteen proprietary names given to one common article, "phenolphthalein," in order to give to the separate proprietors monopoly rights for that particular ingredient?—It is the receptive power of the medical man with regard to these advertisements which makes it necessary for every chemist to keep these things. I think that there is an evil, and I think that the medical profession is responsible for it.

Witness seemed puzzled as to what Dr. Chapple intended by "phenolphthalein," but when he read out some of the other names (Zaza, Purgin, etc.) it became obvious that it was phenolphthalein that was being referred to. He pointed out that it is not a new drug, and, turning to Mr. Bathurst, said that he would probably have employed it for many years in chemical analysis. Mr. Bathurst nodded assent, and said, "Do you think it desirable to get rid of this state of affairs?" Mr. Umney's reply was: "I think it would be a good thing to educate the medical profession, and to make them give the chemical name of the drugs they prescribe."

Sir P. Magnus: The suggestion is that the same drug should not be sold under different names?—Yes; and I should say that the reason they are sold under different names is that the medical profession does not give sufficient time to learning chemistry and pharmacy to become acquainted with these things.

You think that persons who are being trained to become medical practitioners should devote more time to this subject?—I think they should devote a great deal more time than they do to-day.

Witness, pressed further on the same subject, to which Dr. Chapple devoted quite an unusual number of questions, said that the proprietors do not get a monopoly of a particular drug, but of a particular trade-mark, which they used as a distinguishing name. If they made known the drug under that particular name by advertising it and pushing it among members of the medical profession, he thought they were entitled to get the benefit.

Mr. Lawson: The proprietors of these medicines have to make the public acquainted with their properties by advertisements?—In so far as they are supplied to the public, yes.

And to the doctors?—Yes, through their own journals.

The happy remark was made by Mr. Lawson that "the efficacy of therapeutics gains much from advertising."

The cross-examination at this stage was very prolonged, and Mr. Umney emphasised again and again that the practice of doctors is rather to refer to a particular drug by the name under which they have had it brought to their notice than by its chemical name.

Mr. Bathurst: Is it the fact that the medical profession gain their knowledge of these new drugs very largely from the text-books of the medical profession?—Yes, and from advertisements or notices published in their own journals.

Are these new remedies usually described by their commercial names or by their synthetic names?—More often than not by their commercial names.

By Mr. Glyn-Jones: His firm did not make phenolphthalein, but supplied it in large quantities.

If you went to the trouble of educating the medical profession in the use of phenolphthalein, would you want to reap the benefit of your enterprise and knowledge by giving it a distinctive name?—Certainly.

Dr. Chapple: It is not the case, then, that you would do a great injustice to the profession of pharmacy by requiring them to get for the purposes of their business sixteen articles instead of one?—If you were to look through the prescription-books of any leading West-end dispensing house you will see that these things are all prescribed by medical men under the various fancy titles. If the medical profession would prescribe under the chemical name the difficulty would not arise.

"I suggest to you," Dr. Chapple said, "that it is unfair to the profession of pharmacy that a single article like phenolphthalein should be made a proprietary article by sixteen different commercial men who want to raise the price and to advertise it as something new."

"That statement is very unfair," retorted Mr. Umney, who proceeded again to show how money had to be expended to educate the medical profession in the use of the preparation. A person might get a rather extravagant profit on a preparation, but it was not grossly unfair that he should reap a reward. If it had not been

for the registration of Aspirin by that fancy name under which it was introduced to the medical profession we would have been all the poorer.

Mr. Lawson: You are not in favour of monopoly?

Witness: That is a very broad question. The medical profession has largely to be taught the use of some of these things.

Mr. Lawson: My question was rather as to whether you thought any harm was done to the public by this drug appearing under different names?—I think it is a great convenience to the public.

Witness was unable to agree with Mr. Bathurst that it should be possible to prevent the registration of more than one trade-mark for the same drug. If that restriction were applied to pharmaceutical products, it would have to be applied also to other things—to foods, clothing, and many things besides.

Mr. Bathurst: As long as it is in the public interest I do not see that it makes very much difference if it applies only to pharmacy.

Witness: I have not said it is in the public interest. (Laughter.)

The question arose as to phenolphthalein being synonymous with the proprietary articles referred to, and Dr. Chapple said it is so stated in the British Pharmaceutical Codex. Mr. Umney said in that case he considered that the editor of that work was taking upon himself a great responsibility. Mr. Glyn-Jones pointed out that the statement of Dr. Chapple was not in accordance with fact, the B.P. Codex stating that the various laxatives were compounded with phenolphthalein. This Dr. Chapple contended means that the drug is put into various forms and sizes of tablets and pills.

THE INGREDIENTS OF MARZA WINE.

Dr. Chapple then put the witness through a close examination in regard to Marza Wine and the use of medicated wines in general. The wine, said Mr. Umney, had been submitted to one of the highest medical control boards—the Institute of Hygiene—and had been awarded the certificate of merit. It had been passed by the Institute, and also the literature in connection with it.

Later Dr. Chapple asked witness if he suggested that Marza Wine contained iron in medicinal quantities, and whether he would deny that in order to get a medicinal dose from it one would have to drink a gallon and a quarter.

Mr. Umney said he had not worked it out.

Dr. Chapple: I suggest that when you advertise this to the public, and try to get them to consume an intoxicating beverage on the assumption that it contains iron, phosphorus, coca, and pepsin in medicinal quantities, it is a fraudulent act. I ask you whether the public does not require protection from this kind of thing?

Witness: I say it is not a fraudulent act.

Mr. Glyn-Jones: Is it not the fact that whatever amount of iron you may put in a mixture, the system is only capable of assimilating the minutest quantities?

Witness: That is why, as I say, this medical board passed the statement as a satisfactory one.

Many questions of Dr. Chapple were directed to showing that the administration of medicated wines is undesirable in the case of children and might lead to alcoholism in adults.

Witness said that it was sold as a wine, and presumably those who took it did so knowing it was intoxicating.

AFTER LUNCHEON—HALL'S WINE.

Mr. Edward James Hall, founder and managing director of the firm of Stephen Smith & Co., Ltd., Bow, proprietors of Hall's Wine, went into the witness-chair. He stated that he gave evidence as one of the witnesses put forward by the Proprietary Articles Section of the London Chamber of Commerce. The capital of the company was 175,000*l*. Hall's Wine retailed at 3*s*. 6*d*. for a full bottle and 2*s*. for a half-bottle. He mentioned that the wine had been on the market for twenty-five years. The original formula and the suggestion to put it on the market came from a medical man. Apart from advertising, the sale of Hall's Wine was largely influenced by the recommendation of doctors who had taken Hall's Wine themselves, and had been so satis-

fied with the result that they recommended it to their patients. The firm frequently used doctors' testimonials in their advertisements, but did not publish names and addresses.

The Chairman: Do you publish them with the doctors' permission?

Witness: They are sent to us in the ordinary way without any qualification. Witness pointed out that two practising doctors (Dr. Stephen Smith and Dr. Francis McKay) were members of the board, and there were a large number of medical men among the company's shareholders. So far as the firm knew, Hall's Wine had never been adversely criticised by coroners or by medical witnesses.

The Chairman was anxious to know why, in one of the testimonials put in, a medical man should thank the company for sending samples of Hall's Wine to his patients. Mr. Hall replied that the samples were sent on the request of the doctor in accordance with advertising in the "British Medical Journal."

In reply to Dr. Chapple witness said the wine contained in each bottle 1 grain of the extractive principle of the coca-leaf; he could not give the quantity in terms of cocaine. With regard to giving the wine to children, they did not encourage that, invariably recommending that a doctor be consulted in the matter.

In response to the Chairman, witness, however, was unable to produce any printed matter setting forth such recommendation. Continuing, he mentioned that an overdose of Hall's Wine was likely to act as an antidote. On one occasion he drank two tumblers straight off, and it made him vomit.

Replying to Mr. Haydn Jones, he said Dr. Stephen Smith had no interest in the business when it was originated by him (witness), but afterwards he joined the board, and is now chairman. The Chairman wanted to know what supervision the chairman or other medical man had in the actual preparation of Hall's Wine. Mr. Hall said none, beyond the fact that they had found the wine good for the various complaints enumerated in their advertisements. Answering Mr. Glyn-Jones, he said Dr. Kenwood, F.I.C., was engaged to purchase samples of the wine in the open market at periodic intervals, and analyse it to see that it was always up to standard.

The Chairman: You do not take out the cocaine before using coca-leaf in your preparation.

Witness: No. He had heard Mr. Umney's evidence about Marza Wine, and agreed that as far as he (Mr. Umney) was concerned it was a proper thing to do. In some of their advertising literature they warned the public against "substitutes which were useless." That statement did not refer to Marza Wine (which he had not analysed), and he would not like to say which in the Chairman's list was intended.

Hall's Wine contains about 17 per cent. of alcohol. The business of Stephen Smith & Co., Ltd., is that of wine-dealers generally. Hall's Wine is only one of many specialties they sell—"a by-product" suggested Mr. Lawson. In reply to Dr. Chapple, witness said he seriously was of opinion (from his own personal experience) that the antidotal properties of Hall's Wine might be a safeguard against taking it in excess.

The Chairman was intent on the doctors' testimonials put in, and he came across one in which a doctor sent thanks for "the refill for my pocket case." Amid considerable laughter Mr. Hall pointed out that this was a refill for a thermometer which (as advertised in the medical journals) the company gave as presents to doctors.

Mr. Glyn-Jones then elicited that witness's firm was the first to popularise coca wine, and at first it was advertised as Hall's Coca Wine. Eventually, however, the title was changed to "Hall's Wine," because it was legally decided that they could have no monopoly in the title "Coca Wine." Each bottle contains 1 grain of the extractive principle of coca, but if it contained an appreciable quantity of cocaine it would have to be labelled "poison," and could then only be sold by chemists who had wine licences. A High Court case had decided what amount of poison present constitutes "a poison," and presuming there was sufficient poison in Hall's Wine to bring it within the Poisons Act the Inland Revenue authorities would class

it as a medicine, and it would have to be stamped. The bulk of Hall's Wine is sold through other channels than chemists. He thought it quite impossible for anyone to develop the cocaine habit from drinking Hall's Wine, as there was not sufficient coca present.

Mr. Haydn Jones wanted to know in what the food-value consisted. Mr. Hall replied that the meat extract and malt supplied that.

Replying to Mr. O'Grady, witness said the other ingredients of the wine is composed would probably nullify the alcoholic effect of the port. It was not wholly possible to ascertain the ingredients in Hall's Wine by analysis. He had never heard of a single case in which the cocaine habit had been acquired through the use of Hall's Wine.

The Chairman interrupted with the evidence of Dr. Mary Sturge, and Mr. O'Grady wanted to know what he thought of it. Witness replied that he regarded it merely as the evidence of a "temperance advocate."

In reply to Mr. Newton, he was not sure whether the publication of the ingredients of Hall's Wine would or would not adversely affect the sale. Mr. Newton then suggested that, although Hall's Wine might not induce the cocaine habit or the alcohol habit, it might bring on the "Hall's Wine habit," which was more dangerous than the sale of an ordinary wine, as mothers would give it to their children. Witness did not agree that the "Hall's Wine habit" as described by Mr. Newton would be dangerous, as their experience was that people stopped taking it when they were better. By "women's complaints" in their list of remedies those connected with functional disturbances of women were not intended.

Mr. Lawson had a few questions about the prescribing of Hall's Wine by doctors, and then Dr. Chapple took a hand. It was largely a case of fencing between questioner and witness with regard to the probability of the use of Hall's Wine inducing the cocaine habit and also the alcohol habit. The witness said that sales were gradually increasing, as advertising was increased.

Reading from the label Dr. Chapple asked: Why after taking one or two wineglassfuls of the wine patients were recommended to "lie down." Mr. Hall replied that with neuralgia, for instance, after a dose the patient would lie down and go to sleep. This was probably due to the cocaine.

Dr. Chapple: Do you mean to say there is sufficient cocaine in two wineglassfuls to induce sleep and yet not induce the cocaine habit?—Witness was of that opinion.

Questioned further on the term "women's complaints" he instanced maternity cases.

"But maternity is not a complaint," interjected Mr. Bathurst.

Witness reiterated, in reply to other questions by Dr. Chapple, the experience of the company that after they felt better people discontinued the taking of Hall's Wine. This was shown by the fact that the demand shifts about from district to district, as advertising is done to produce the demand. With regard to the use of Hall's Wine as a "brain tonic" Dr. Chapple suggested that all scientific authorities were agreed that far from being a brain tonic alcohol is a brain paralysers.

Mr. Hall said he believed very many doctors do recommend alcohol in some form or other, and the Chairman pointed out that they had two or three columns of reports from medical witnesses deprecating the use of medicated wines. Witness's reply was that the Committee had only heard one side of the question, but he was not prepared to put medical men in the witness chair to prove to the contrary.

Dr. Chapple then unearthed another portion of Hall's Wine literature in which the remedy was recommended as being good "to remove drowsiness." How could it, he said, induce sleep and remove drowsiness at the same time? Witness replied that under certain conditions it might do both, and Mr. Bathurst suggested that it might "remove the drowsiness by inducing sleep."

After some further questions the division bell rang, and the Committee broke up hastily after the Chairman had thanked Mr. Hall for giving evidence.

The next sitting will take place on January 9, 1913.

WESTMINSTER WISDOM.

The Week in Parliament.

ANTITOXIN SERUM.

Mr. G. N. Barnes, M.P., is calling the attention of the Scottish Secretary in the House of Commons next week to the fact that a minor living at Glasgow has been inoculated with antitoxin serum at a Glasgow hospital against the wishes of his father.

INDUSTRIAL ALCOHOL.

Mr. A. Fell, M.P., is asking the President of the Board of Agriculture whether any experiments are being made or money set aside to encourage the production of alcohol or vegetable-spirit for industrial purposes to meet the price now charged for petrol and other spirits.

BANKRUPTCY LAW REFORM.

The Prime Minister informed Mr. Joynson-Hicks, M.P., on Monday that he is fully aware of the importance attached to the Bankruptcy Bill by the commercial community, and the Government would be glad if the Bill could be passed as early as possible. But in view of the lateness of the Session and the pressure on members, he fears he cannot afford facilities for its passing this Session.

MILK BILL.

On Tuesday Mr. John Burns gave notice of his intention to introduce a Bill "to make better provision with respect to the sale of milk and the regulation of dairies." This Bill is very much on the lines of similar legislation previously introduced. The main feature of the new proposals is that provision is made for the compensation of the owners of tuberculous animals which have been compulsorily slaughtered.

GAS RESIDUALS.

A meeting of the Joint Committee of the Houses of Lords and Commons was held on Wednesday afternoon at the House of Commons to consider the draft report of the Chairman. Our Parliamentary correspondent learns that there are rumours that the ultimate decision of the Committee will be in the direction of allowing the gas undertakings to work up and deal with their own residuals, although it may be necessary to impose certain restrictions and limitations in regard to the purchase of residuals from other concerns.

POST-OFFICES IN RURAL DISTRICTS.

The Postmaster-General announces that the practice of allowing rural post-offices to close early on one day a week, which was introduced upon the recommendation of the Parliamentary Committee on Post Office Servants, 1907, is in force at many post-offices throughout the country. The day selected for early closing is usually that adopted locally for shops under the Shops Act, when there is generally a considerable reduction in the volume of post-office business. He does not think that any inconvenience has resulted from the arrangement, and apart from practical difficulties which would be considerable, he should not feel warranted in incurring the expense of sending a special staff to deal with the work.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

Argaldin.—This is a new silver preparation formed by the precipitation of silver salts and albumen in the presence of formaldehyde.

Russian Turpentine Oil.—Maisit ("Russ. Pharm. Journ.," 1912, 1-6) has examined the constituents of the Russian turpentine distilled from the crude exudation. He finds a small quantity of acetone present in the early fractions distilling between 55° and 140°. The fraction 135°-155° consists chiefly of a mixture of α -pinene and β -pinene. The fraction 170°-180° contains dipentene, limonene, and inactive sylvestrene (carvestrene?). In the higher-boiling fractions a small quantity of terpineol is present.

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

BOOTS, LTD., have taken premises at Pontefract, which will be opened as a branch.

MR. F. POLLARD, Wibsey, near Bradford, intends opening a branch drug-store at Wyke.

MR. J. MYRDDIN DAVIES, chemist and druggist, 4 Oxford Street, Swansea, is, owing to expiry of lease, removing shortly to new premises at the bottom of High Street, Swansea.

MESSRS. JOHN BAILY & Co., chemists, Margate, have purchased the business formerly carried on at 49 Northumberland Road, Margate, by Mr. R. Pettman, chemist and druggist.

MR. E. SIMINSON, chemist and druggist, of 16 Natal Road, Streatham, London, S.W., has acquired the business of Mr. F. Morris, High Street, Minster-in-Thanes. [Corrected note.]

MR. G. D. W. CLOWES, chemist and druggist, who purchased the business of the late Mr. Mayger, chemist, at 6 Regent Square, Northampton, has disposed of it to Mr. E. Y. Stuckey, chemist and druggist, of London, and gone to study at Lincoln Theological College.

It is reported that in the Linthorpe Road district of Darlington three retail drug-businesses are to be opened. Mr. J. Waters is opening a branch pharmacy there. Boots, Ltd., and a drug department of the Co-operative Stores are the other newcomers. Six pharmacies are already there.

MR. H. DAWSON WEST, chemist and druggist, has purchased the old-established business of Mr. A. S. Dean, Ph.C., at 40 Low Street, Keighley. Mr. West served his apprenticeship at his mother's shop at 15 High Street, Keighley, and for the past fourteen years has been manager there. His brother, Mr. Tom E. West, pharmacist, has taken over the management of the High Street pharmacy.

MR. E. W. POLLARD, Ph.C., has removed from No. 168 to No. 23 High Street, Ryde. In announcing his removal, Mr. Pollard invites inspection of his pharmacy, sight-testing room, photographic dark-room, and manufacturing laboratory. The invitation continues:

SOMETHING QUITE NEW FOR THE NEW YEAR!

DEMONSTRATIONS IN PILL MAKING!

A short time ago many inhabitants of Ryde were interested and educated by a window-display of pill-making machinery. Pollards have decided to show in a practical way that it is no dishonest boast that they manufacture not only their own pills but nearly all medicinal preparations on the premises. You will be interested in:

1. The manufacture of Pollards' Digestive Pills, Wednesday, January 1.
2. The manufacture and testing of Sal Volatile, Thursday, January 2.
3. The preparation and packing of Pollards' Violet Powder, Friday, January 3.
4. The manufacture and testing of Sweet Spirit of Nitre, Monday, January 6.
5. The manufacture of Parrish's Chemical Food, Tuesday, January 7.

The final hint is: "Mornings only, as our time is valuable. Come and see for yourselves!"

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. W. H. DELVE, chemist and druggist, 310 Stretford Road, Manchester, has been elected a Vice-President of the new Stretford Road Tradesmen's Association.

MR. H. E. HALL, of Pretoria, who was formerly on the C. & D. editorial staff, is in England at present on a four-months' visit. Mr. Hall fills an important journalistic appointment in South Africa.

MR. SYDNEY SMITH, A.I.C., Ph.C., a former prize-winner in the C. & D. Students' Corner, has obtained the

degree of Bachelor of Science of the London University with first-class honours in chemistry, and has matriculated in the University of Kiel.

MR. W. E. MILLER, chemist and druggist, who has been in the service of the St. Pancras Guardians for over thirty years, has been granted 20% increase of salary (subject to the sanction of the Local Government Board), making his salary now 200% per annum. Mr. Miller has the distinction of being the first pharmacist in the Metropolitan area of the Poor-law Service to attain the new maximum salary granted by the Local Government Board as a result of the memorial presented by the Poor-law Section of the Public Pharmacists' and Dispensers' Association.

MR. LIONEL CANNAR informs us that the announcement in our issue of November 16 regarding Guests, Ltd., having purchased the business of Mr. Pennock, Tooting Broadway, London, S.W., is quite correct, whereas it is erroneous to state, as was represented to us later (see C. & D., December 7, index folio 846), that he was the purchaser. Mr. Cannar is not a shareholder in Guests, Ltd., and his connection with Messrs. Harrison & Waide, Leeds, as their London representative, continues without interruption: we hope that the statement of December 7 has not carried any idea to the contrary.

OUR GERMAN LETTER.

(Special Correspondence to the "C. & D.")

Infants' Feeding-bottles.—A Bill has been introduced in the Reichstag by which not only the manufacture and sale of infants' feeding-bottles provided with tubes, but also the importation of such bottles from abroad, are prohibited.

Berlin Pharmaceutical Institute.—On November 29 the tenth anniversary of the foundation of this Institute at Dahlem was celebrated by a "Kommers" in the Schlosspark, Steglitz. Professor H. Thoms, Ph.D., the Director, welcomed his numerous guests and reviewed the last ten years' work. He was afterwards presented with an artistically designed address.

A Perfume 1,600 Years Old.—According to the "Berliner Börsen-Courier," archaeological excavations undertaken in Aquileja, between Beligna and Belvedere, resulted in the finding of an urn in a tomb, which probably dates from the fourth century A.D., containing, among other articles, a small perfume bottle. The dried-up remains, which are 1,600 years old, were found by Professor Majonica to be ladanum resin. This odorous, tough resin exudes from the leaves and twigs of the Cretan rock-rose (*Cistus creticus*).

Expulsion of Macaura.—The "Berliner Börsen-Courier" of December 5 reports as follows: "On November 2 the Englishman Gerald Joseph Macaura, who has been extolling in quack-like advertisements the Pulsocon apparatus, as well as his accomplices, Frank Macaura, A. F. Appelboom, Edgar Johnston, and M. Carthy-Barry, have been expelled from Prussian State territory on a charge of wrongful competition and an attempt to cheat. . . . Macaura has now given over the exploitation of the Pulsocon apparatus to the firm Gebrüder Haase in Berlin, Lützowstrasse 106."

German Chemical Industry.—At the twenty-fifth annual meeting of the Association for the Protection of the Interests of the German Chemical Industry, which includes practically every chemical factory of importance, some interesting statements were made with regard to the present situation of the industry. In spite of the fact that the past year witnessed an increase in production and in turnover, the actual profits showed no increase; on the contrary, a decrease, due to the great rise in price of foodstuffs, which has naturally led to an increase in the cost of raw materials and of production. The chemical industry has been singularly free from strikes and lock-outs, but it is feared that in the future this state of affairs will suffer a change, as agitators are at work trying to sow dissatisfaction among the workmen by emphasising the dangerous nature of their work. Compared with 1910, the wages of the workmen increased on an average by 2 per cent.—i.e., from 59% 4s. per annum in 1910 to 60% 4s. in 1911. The amount of chemical products imported from Great Britain shows considerable variation since 1907, particularly in the class of products grouped under the title of "Chemical elements, acids, salts, etc.," while German exports to Great Britain show a considerable increase in the groups of chemical elements, etc.,

and in pharmaceutical products; dyes, however, remain stationary. The figures for Great Britain are:

	1907	1908	1909	1910	1911
Imports in £ ...	1,090,000	1,115,000	1,295,000	985,000	1,070,000
Exports in £ ...	3,960,000	3,465,000	3,780,000	4,310,000	4,615,000

The statement that in spite of greater business activity during 1911 the profits have not increased is well illustrated in the returns published by the joint-stock companies. The 190 chemical joint-stock companies have an aggregate paid-up capital of 33,590,000*l.*, and the total paid in dividends amounted to 4,675,500*l.*, or an average dividend of 13.92 per cent., as compared with 13.96 per cent. in 1910. In addition to the paid-up capital, these companies also held 14,550,000*l.* in the shape of reserve funds, while the debentures and mortgages amounted to 7,900,000*l.*, so that the total invested capital aggregates 55,550,000*l.*, on which an average interest amounting to 9.32 per cent. was paid in 1911, against 9.51 per cent. in 1910. The different groups of undertakings show considerable variations as regards profits. No fewer than forty-seven companies worked either at a loss or without paying any dividends; nineteen were able to pay less than 5 per cent.—that is to say, about one-third yielded nothing, or within 5 per cent.; another one-third (fifty-one companies) paid out between 5 and 10 per cent.; while the remaining one-third paid out high dividends. As regards the single groups of undertakings, the average highest dividends (24.19 per cent.) are paid by the coal-tar dye-works, followed by the manufactories of explosives (16.35 per cent.) and artificial manure, glue, and gelatin works (14.32 per cent.); then, occupying the fourth place, come the manufactories of chemical, technical, photographic, and pharmaceutical preparations, with an average yield of 13.61 per cent.; and last on the list, with only 3.45 per cent., figures the match industry. The manufacture of alkalis and acids has suffered a loss in profits. As regards the production of ammonium sulphate, Germany occupies the first place with 418,000 tons, or 34.5 per cent. of the world's production, followed by Great Britain with 378,500 tons, or 32 per cent. of the total production. The manufacture of essential oils is extremely satisfactory from a financial point of view, while the increased output of pharmaceutical products and consequent increase in exports to all countries suffered from low prices. The higher price of alcohol was also alluded to, particularly as the fear was expressed that this factor might prove prejudicial to the German chemical industry by enabling other countries to reap the benefits of German achievements in manufactures in which cheap alcohol plays an essential rôle.

DEED OF ARRANGEMENT.

Hick, Alfred William, 64A Liverpool Road South, Birkdale, Southport, Chemist and Druggist.—Dated, November 27; filed, December 3. Liabilities unsecured, 437*l.*; estimated net assets, 273*l.*. Among the creditors are: D. & W. Gibbs, Ltd. (10*l.*); Potter & Clarke, Ltd. (12*l.*); R. Tomlinson & Sons, Birmingham (17*l.*); Wyleys, Ltd., Coventry (109*l.*); R. Sumner & Co., Ltd., Liverpool (11*l.*); C. Harrison & Sons, Manchester (12*l.*); Jas Woolley, Sons & Co., Ltd., Manchester (21*l.*).

The Crutched Friars Drug Warehouse.

The Port of London Authority notified in last week's *C. & D.* Supplement that the stocks of goods now stored in the Crutched Friars warehouse, such as quinine, rhubarb, aloes, gums, sponge, vanilla, and all other drugs, are to be removed to Cutler Street warehouses, but no date has been specified. Meanwhile, the Museum of Drugs at Crutched Friars has been dismantled, and the samples have been packed prior to removal to Cutler Street, where it is not proposed to re-erect the Museum, the Authority believing they can utilise the space to better advantage. There is some talk about the exhibits being sold to a drug-merchant, but it appears a fitting opportunity for the Pharmaceutical Society or the Imperial Institute to acquire the collection. Portions of the Museum are well worth saving, as some of the specimens are practically irreplaceable. The next drug-auction takes place on January 9, and it is doubtful if the Cutler Street warehouses will be available by that time.

FOR THE BEST RECIPES consult "Pharmaceutical Formulas," the most popular and practical book of the kind in the English language. All sorts and conditions of animals are dealt with in "Veterinary Counter Practice," one of the most useful of the *C. & D.* series of books. Price 3*s.* 6*d.*, by post 3*s.* 9*d.*

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., December 12.

THE near approach of the end of the year is having its usual effect on business in Mincing Lane, and, were it not for the fact that a fair quantity of drugs was offered at auction to-day, there would be little to chronicle. One of the chief events of the week was the annual auction of castorum, when the large supplies offered sold on a demoralised market, very erratic and much lower prices being paid. Among chemicals, German saltpetre was advanced 10*s.* per ton, and subsequently withdrawn, probably in view of a more substantial advance later. Arsenic is firm, and ammonia sulphate dearer. Other changes include an advance in true cannabis indica, owing to scarcity. Lemon oil is again higher, but supplies on the way should relieve the stringency. Cod-liver oil is firmer in several quarters, and again higher prices are quoted for Florentine orris to arrive. Shellac at auction was cheaper, as was menthol without reserve. Opium is quiet. The principal changes of the week are as under:

Higher	Firmer	Easier	Lower
Cannabis indica	Ammonia sulphate	Aloes (Cape)	Castorum
Lemon oil	Cod-liver oil	Sarsaparilla (Grey Jam.)	Coca leaves (Ceylon)
Orris (Flor.)	Quicksilver (seconds)		Mace (W.I.)
	Valerian		Menthol
			Shellac (fine)

London Markets.

ALCOHOL.—The price of British plain spirit for druggists' use has now been fixed for next year at the figure which has been current since last March, when an advance of 1*d.* took place, making the quotation 1*s.* 3*d.* per pf. gal. in bond delivered London and 1*s.* 3½*d.* for the provinces. During the past ten days the price of German spirit has advanced about 25 per cent. owing to the fact that the potato crop has proved disappointing as a result of the wet weather, which is said to be responsible for a decrease of about 40 per cent. in the output.

ARECA is quoted at 21*s.* per cwt. spot for sound quality. In the drug-auction 12 bags fair Java were held at 25*s.*

ARSENIC is firm at from 25*l.* to 26*l.* per ton for best white English powder in barrels and kegs respectively. In the drug-auction 12 barrels of foreign white powdered (Silesia brand) were limited at 25*s.* per cwt., no discount or allowances.

ASAETIDA.—The *Gorgistan*, from Lingah, Persian Gulf, has brought 284 cases.

BELLADONNA-ROOT is steady, 0.6 per cent. offering at 33*s.* per cwt. c.i.f. London.

BERGAMOT OIL is steady at 27*s.* 6*d.* per lb. spot and at 26*s.* 3*d.* c.i.f.

BURDOCK-ROOT.—There is very little to be had on spot, but the new crop is expected early in January.

CALABAR BEANS.—At auction in Liverpool 19 bags sold from the quay at from 11½*d.* to 1*s.* per lb.

CAMPBOR.—Arrivals comprise 910 cases crude from Keelung, and 395 cases refined from Kobe. The sales include Japanese 2½-lb. slabs at 1s. 5d., and 1-oz. at 1s. 6d. c.i.f. for January-February shipment.

CANNABIS INDICA.—The price of true Bombay tops is now 6s. per lb., business having been done at 5s. 6d.; the drug is extremely scarce. The value of East African is between 1s. and 1s. 6d. per lb.

CASCARA SAGRADA remains quiet, with new offering on the spot at 35s.

CASSIA OIL.—Small spot sales of 80 to 85 per cent. c.a. have been made at 3s. 9d., and to arrive this grade is quoted 3s. 6d. c.i.f.

CASTORUM.—The annual auction of the Hudson's Bay Co. was held at the London Commercial Sale Rooms on Wednesday, December 11, when the quantity offered was 2,302 lb., as compared with 1,791 lb. in 1911, or 511 lb. more. An analysis of the catalogue shows that the quantity offered was divided as follows, the figures in brackets being those for 1911: Firsts, 93 lb. [68 lb.]; firsts and seconds, 21 lb. [29 lb.]; seconds, 221 lb. [230½ lb.]; seconds and thirds, 52 lb.; thirds, 641 lb. [619 lb.]; pickings, 619 lb. [472 lb.]; and cuttings, etc., 641 lb. [373 lb.]. The quality was quite as good as that offered last year, and as regards quantity the feature was the large increase of cuttings. The usual complement of buyers was present, principally on Continental account, and all offerings were disposed of, but the excessive quantity offered resulted in poor competition and a very demoralised market, the prices paid being erratic and much lower than the famine prices of last year.

The prices paid were as follows:

	1912 Per lb.	1911 Per lb.
Y.F. Firsts, fair, bold, bright, dry ...	160s.	172s. 6d.
Firsts, medium to bold, bright, part damp ...	80s.	—
Seconds, medium to bold, slightly damp, bright ...	120s. to 130s.	175s. to 180s.
Seconds and thirds ...	47s. 6d.	—
Thirds, good, slightly damp ...	56s. to 59s.	190s. to 192s. 6d.
Thirds, dry, mouldy, part skinny ...	62s.	190s.
Pickings, slightly damp ...	24s. to 48s.	195s.
M.R. Firsts and seconds ...	60s.	195s.
Thirds, fair, bright, and damp ...	30s.	180s.
Pickings, fair, damp ...	17s.	180s.
Canada. Bold, firsts, damp, bright, mostly dark ...	90s. to 100s.	185s.
Seconds, fair, medium, damp ...	62s. 6d. to 70s.	165s. to 170s.
Seconds and thirds, mouldy, mostly bright, few damp ...	30s.	—
Thirds, fair, dampish, slightly mouldy ...	40s.	137s. 6d. to 145s.
Thirds, part mouldy and damp ...	32s. to 38s.	117s. 6d.
Pickings, fair, dampish, part slightly mouldy ...	14s. to 27s.	107s. 6d. to 110s.
N.W. Firsts, fair, bold, red, mostly dry ...	70s. to 90s.	180s.
Seconds, fair, medium, dry ...	52s. 6d. to 53s.	172s. 6d.
Thirds, fair, dry ...	33s. to 39s.	152s. 6d. to 155s.
Pickings, fair, bright, dry ...	24s. to 31s.	159s.
Y.F. etc. Cuttings and open pods, damp ...	8s. 6d. to 15s.	47s. 6d. to 72s. 6d.
N.W. etc. Ditto ...	5s. to 9s.	—

Summarising the above table we find that firsts sold at from 70s. to 160s.; firsts and seconds, 60s.; seconds, 52s. 6d. to 130s.; seconds and thirds, 30s. to 47s. 6d.; thirds, 30s. to 62s.; pickings, 14s. to 48s.; cuttings, etc., 5s. to 15s. per lb.

At the conclusion of the Hudson's Bay Co.'s sale a further 1,275 lb. of Oregon castor oil *via* Quebec, New

York, Montreal, etc., was offered, compared with 598 lb. last year. This comprised 252 lb. seconds, 95 lb. seconds and thirds, 364 lb. thirds, 410 lb. pickings, and 153 lb. pickings and cuttings. The prices paid were as follows, the figures in brackets being those for last year: Firsts and seconds, 36s. to 65s.; seconds, 55s. to 68s. [85s. to 115s.]; second and thirds, 29s. to 67s. [80s. to 100s.]; thirds, 27s. to 48s. [80s. to 100s.]; thirds and pickings, 15s. to 35s.; pickings, 6s. to 28s. [67s. to 87s. 6d.]; cuttings, etc., 6s. to 7s. [52s. 6d. to 55s.].

CLOVE OIL is firm, at from 5s. 6d. to 5s. 8d. per lb., according to quantity.

CLOVES.—Zanzibar are quiet, with spot offering at 9½d., a shade easier on the week; for delivery January-March has been sold at 9½d., and March-May at 10d. to 9½d.; to arrive, sellers of October-December quote 9½d., and January-March 9½d. c.i.f. At auction 7 cases good Penang were bought in at 1s. 2d. and 5 bags Seychelles at 9d.

COD-LIVER OIL.—A firmer tone is evident in several directions, from 66s. to 68s. representing the quotations from the leading agents. Our Bergen correspondent states that the quotation for finest non-congealing Lofoten oil is 66s. per barrel c.i.f. terms.

An Aalesund report dated December 3 states that the export of steam-refined cod-liver oil has reached 62,500 hectolitres, and according to statistics the remaining stocks in Norway should to-day be 25,618 hectolitres, or perhaps are less. Judging from the exceptionally heavy shipments, we are of opinion that nearly all the oil held in this country is sold forward. The market during November was dull, and quotations are a shade lower. However, the situation is more clear, and prices are sure to be dearer before new crop is reported.

COLOCYNTH.—Privately pulp is quoted at from 6d. to 6½d. per lb.

COPAIBA is firm, filtered B.P. offering in cases at 2s. 1d. per lb.

COPPER SULPHATE.—Steady at 25l. 5s. per ton for the usual Liverpool brands for December delivery, and 25l. 10s. to 25l. 12s. 6d. for January-February.

EUCALYPTUS OIL.—Business has been done at the steady rates of 1s. 7d. to 1s. 8d. for 60 to 65 per cent. The prices quoted for shipment from Australia are on a higher parity than spot, so that there is little inducement to import at the moment. In the drug auction 12 cases good bright pale 82 per cent. were held at 1s. 8d. per lb.

LEMON OIL is again higher, and scarce on spot, but arrivals will take place shortly; meanwhile those compelled to buy have paid 8s. 6d., and even more; January-February shipment is quoted 8s. to 8s. 2d. c.i.f.

OPIUM.—Business is practically at a standstill this week, and prices remain substantially unchanged, previous quotations being repeated at from 19s. to 19s. 3d. per lb. for usual 11-per-cent. Turkey druggists' quality, while spot of similar test is 22s. 6d. per lb. The *Favonian*, from Smyrna, has brought 97 cases

A Smyrna correspondent writes on November 29 that the sales this week amount to 71 cases, at from 18s. to 22s. per lb., as to quality and crop. Quotations are: Old selected Karahissar (11½ per cent. to 12 per cent.), 21s. 9d. to 22s. 6d.; new, ditto (11 per cent. to 11½ per cent.), 20s. 6d. to 22s.; Yerli, according to quality (7 per cent. to 10 per cent.), 14s. 6d. to 19s. No definite news in regard to the sowings has come down from the Interior, but, although throughout the month the weather has been favourable, still there are many complaints of scarcity of labour, which retards and sets back in many parts all field work which is necessary at this season for substantial crops next year. The arrivals in Smyrna amount to 1,973 cases, against 983 cases at same date last year.

A Constantinople correspondent writes on December 7 that the sales of the week amount to 23 cases druggists' at 260 to 287 pirs., according to quality, and 14 cases "softs" at 285 to 312 pirs. per oke. Ten cases "soft" have also been exported for consignment to London.

Reuter's Agency learns that telegrams have been received from China during the past few days to the effect that the Chinese authorities have notified their intention to close all ports immediately against the importation of Indian opium, in spite of the fact that the native opium-poppy is still extensively cultivated in China. Indian merchants and

shippers complain that the action is in violation of last year's Treaty, which allowed for working off stocks. Representations have again been addressed to the British Foreign Office on the subject by leading Indian bankers and merchants, who have also protested to the India Office against the continuance under existing circumstances of sales by the Government of India of opium specially certificated for shipment to China.

ORANGE-PEEL.—Steady, with sales of fair Tripoli strip at 8½d. per lb.

ORRIS.—Prices continue to advance, the value of fair Florentine sorts on the spot being 60s. per cwt., and to arrive good is quoted 62s. 6d. to 63s. per cwt. c.i.f. The *Anchoria* has brought 108 bags from Leghorn.

PEPPERMINT OIL.—Market is dull, but in several directions it is anticipated that with the resumption of business after the turn of the year the market will advance, this being based on cabled American information; from 11s. 6d. to 12s. represents the quotations for first-class brands of tin oil from first hands. H.G.H. is quoted 14s. 9d. to 15s. Japanese is somewhat scarce on spot, with business in Kobayashi up to 7s. 2d. per lb.

PHENACETIN.—As announced last week, the quotation for bottom quantities of 10 cwt. is 2s. 9½d. per lb., from which the scale of prices runs up to 3s. 2d.

QUICKSILVER.—The principal importer's price is unchanged at 7l. 8s. 6d. per bottle, and in second-hands an advance of 1s. is asked on last week's price—viz. 7l. 6s.

QUININE.—Firm, second-hand sellers quoting the usual German brands at 9d. per oz. for a limited quantity, with buyers at 8½d. In the drug auction a case of B. & S. brand sold for account of whom it may concern at 8½d. per oz., less 5 per cent. discount.

At the auction of quinine held at Amsterdam on December 6, 1,417½ kilos. (50,000 oz.) Ed. II. sold at an average price of fl.14.25 per kilo., against fl.14.14½ per kilo. paid at the previous auction. The next auction will be held on December 27, when a similar quantity will be offered.

SALTPETRE.—Early in the week an advance of 10s. per ton was announced on the part of the German Convention, but subsequently prices were withdrawn pending, it is stated, a more substantial advance.

SANDALWOOD OIL.—With an unsettled market, one of the leading English drawers now quotes 20s. to 21s. per lb., the lower price being for six W. qts.

SHELLAC.—At auction 419 cases sold without reserve at a decline of 3s. to 4s. per cwt. on fine Orange, TN, being steady. Fine Orange Lion sold at 80s., fine strong curly 79s., fine Ralli ultra slightly matted 77s., good to fine second Orange slightly matted 70s. to 73s., fair second Orange slightly matted 68s. to 69s., mixed seconds free 66s., dark small livery 62s. to 65s. Of Button 56 cases offered and 16 sold at 70s. for pale free No. 1, and 61s. for good fourths slightly cakey. Privately the market is easier and dull, with fair TN Orange offering at 68s., and November-December shipment at 68s. c.i.f. Futures are also easier, the sales including December at 67s. to 67s. 6d., March at 70s. to 69s. 6d., and May at 71s.

TURPENTINE. after touching 28s. at the close of last week, has since recovered to 28s. 9d. for American on the spot, and by 4 p.m. to-day 29s. 3d. was quoted.

VALERIAN is a trifle firmer on the spot, sellers asking 35s.

London Drug-auctions.

Commercial Sale Rooms, Mining Lane, December 12.

The next drug-auction will be held on January 9, 1913.

An extremely small proportion of the goods, which consisted of first- and second-hands, was disposed of owing to the proximity of the close of the year and to the fact that the prompt day is December 28. Cape aloes was flat and without demand. Sumatra benzoin brought steady rates. Ceylon-Huanuco coca-leaves were cheaper. Cardamoms and calumba were all bought in, and the same applies to dragon's-blood, ergot, gamboge, and ipecac. Menthol was about 3s. 6d. to 4s. per lb. lower as compared with the auction sale a fortnight ago. Sarsaparilla was 1d. easier for grey Jamaica, but no native Jamaica was sold. Tinnevely senna only partially sold. Turmeric was in heavy supply with a small demand. Madagascar beeswax was steady, while good Mogador realised full prices. The following table shows the quantity of goods offered and sold:

Offered Sold				Offered Sold			
Aloes—				Insect-flowers			
Cape	61	...	7	Ipecacuanha—	1	...	0
Socotrine	45	...	0	Matto Grosso ...	12	...	0
Zanzibar	25	...	0	Minas	4	...	0
Annatto-seed	20	...	0	Kamala	20	...	0
Apricot-kernels ...	75	...	0	Kola	21	...	21
Araroba	6	...	0	Lemongrass oil ...	7	...	0
Areca	12	...	0	Menthol.....	13	...	10
Arsenic	12	...	0	Musk	2	...	0
Bael-fruit	1	...	1	Myrrh.....	33	...	0
Balsam peru	2	...	0	Nux vomica	134	...	0
Balsam tolu	12	...	0	Olibanum	72	...	0
Bay oil	1	...	1	Papain	7	...	0
Benzoin—				Pargira brava	32	...	0
Penang	14	...	0	Patchouli oil	3	...	0
Sumatra	155	...	32	Puree	8	...	0
Buchu	36	...	0	Quince seed	2	...	2
Calumba	177	...	0	Quinine (1,000 oz.)		1,000 oz.	
Cannabis indica ...	45	...	0	Rhubarb (China)...	37	...	0
Cardamoms & seed	120	...	11	Sandarac	9	...	0
Cashew-nuts	11	...	0	Sarsaparilla—			
Cassia fistula	52	...	30	Grey Jam.	21	...	21
Chiretta	58	...	0	Native Jam	5	...	0
Cinchona	51	...	1	Seedlac	108	...	0
Coca-leaves	78	...	53	Senna and pods—			
Cocculus indicus...	200	...	0	Alexandrian	93	...	11
Colocynth and pulp	13	...	0	Tinnevely	276	...	96
Copaiba	11	...	11	Squill	10	...	0
Cotton-seed	1	...	0	Strophanthus	9	...	0
Croton-seed	44	...	0	Tamarinds	39	...	4
Cubebs	16	...	0	Tonka-beans	2	...	1
Cuttlesfish-bone ...	24	...	0	Tragacanth	118	...	118
Digitalis-leaves ...	21	...	0	Turmeric	729	...	14
Dragon's-blood	22	...	0	Turtle oil	13	...	0
Elemi	12	...	0	Wax (Bees')—			
Ergot	15	...	0	East African	17	...	0
Eucalyptus oil	31	...	0	East Indian	50	...	3
Galls	49	...	49	Jamaica	1	...	1
Gamboge	20	...	1	Madagascar	128	...	12
Gum acacia	118	...	11	Mogador	30	...	24
Gurjun oil	80	...	0	Spanish	14	...	0
Honey—				West Indian	2	...	2
Haiti	3	...	3	Zanzibar	157	...	0
St. Lucia	10	...	0				

ALOES.—Cape flat and practically without demand, the price of good hard brights firsts being 40s. per cwt. Four cases of fair seconds sold at 36s. subject, and slightly cindery ditto at 35s. 6d. subject. No Socotrine or Zanzibar sold.

ARAROA.—Six barrels analysing 52.8 per cent. chrysarbin (Hehner) were held at 1s. 9d.; a bid of 1s. 1d. was refused for the parcel.

BAEL-FRUIT.—A bale of fair dried sold without reserve at 3½d. per lb.

BAY OIL.—A single case of fair Dominica sold at 11s. per lb.

BENZOIN.—Steady; 32 cases of fair to good Sumatra thirds sold at from 5l. 15s. to 6l. per cwt.; 10 cases of fair glassy Penang, part drossy, were offered, the highest bid being 5l. 7s. 6d.

BUCHU.—Flat. Good green round leaf was bought in at 6s. 3d., and yellowish and stalky at 5s. 6d. to 6s., greenish long-ovals at 2s., greenish stalky ovals at 1s. 8d. to 1s. 10d., and bronzy 1s. 6d. per lb.

CARDAMOMS.—Those disposed of were seven cases for account of whom it may concern, at 4s. 8d. for bold long palish and 4s. 3d. for medium to bold ditto. Four cases seed had been sold privately.

CASSIA FISTULA.—Thirty baskets of ordinary lean Java sold without reserve at from 18s. to 20s. per cwt.

CINCHONA.—Fifty bales of pale Lima in broken quills, which has not been seen on this market for many years, was limited at 7d. per lb. A bale of Calisaya quill sold without reserve at 4d., and three bales damaged Java bark at 2d. and two bales at 8d. per lb.

COCA-LEAVES sold at rather lower prices, 28 cases of good clean green Ceylon-Huanuco selling at from 9½d. to 10d. Privately Truxillo are quoted at 7½d. per lb. spot. Twenty-five bales smoke-damaged Ceylon Truxillo sold at from 1d. to 5½d. per lb. without reserve.

COPAIBA.—Eleven kegs part bright, part cloudy Pará sold on underwriter's account at 1s. 7d. per lb.

DRAGON'S-BLOOD.—Eight cases of fair seedy virgin lump were held at 7l. 10s. per cwt. Seven packages have arrived from Singapore.

ERGOT.—Eight bags of good sound Russian new crop just arrived were limited at 4s. 3d. per lb.; privately from 4s. to 4s. 3d. is quoted, and 3s. 9d. to 4s. c.i.f. for new crop.

GAMBOGE.—A single case of common and drossy Siam and Saigon mixed pickings sold without reserve at 11l. 5s. per cwt.

GUM ACACIA.—Seven packages of brown Barbary blocky gum, mostly adhering to gunny, sold at from 10s. to 27s. per cwt., and Mogador-Amrad in block at 7s. 6d. Three bags of ordinary dull glassy Australian sold without reserve at 20s. per cwt.

HONEY.—No Jamaica offered. Three barrels fair brown set Haiti sold at 28s. and ullaged at 25s. A bid of 28s. 6d. is to be submitted for 10 cases fair brown and yellow set St. Lucia.

IPECACUANHA.—Nothing sold, 12 bales of Matto Grosso being held for 9s. per lb. and four bales of Minas at from 8s. 6d. to 9s.

KOLA is firm, 14 bags of fair dried West Indian selling at 5d., slightly mouldy at 4½d., and mouldy at 3½d. A further five bags of small Ceylon quarters sold at 4½d., a single bag of fair bright West Indian halves at 4½d., and pickings at 1½d. per lb.

MENTHOL was from 3s. 6d. to 4s. lower as compared with the auction sale a fortnight ago, five cases Kobayashi selling without reserve, opening at 28s., advancing to 30s. 9d., and closing at 29s. 3d. (average price 29s. 3d.); five cases Suzuki also sold, the first case at 28s. and the remainder at 29s. 9d. (average price 29s. 5d.). Three cases Yazawa (a protected lot) were offered prior to the above, but there were no takers at 29s. 9d. Privately sales have been made in Suzuki for February-March shipment with equal quantity of oil at 32s. c.i.f. The *Ortolan*, from Hamburg, has brought 15 cases. Since the auction 34s. is asked for Kobayashi on spot.

MYRRH was neglected, the value of small glassy pale sorts being 45s. per cwt.

QUINCE-SEED.—Two pockets of fair Cape sold at 2s. 7d. per lb.

RHUBARB.—The *Perseus*, from Shanghai, has brought 76 cases, also 234 cases in *tr.* No business in auction.

SANDARAC.—Nine bags of fair small Mogador were limited at 75s., an offer of 72s. 6d. being refused.

SARSAPARILLA.—Grey Jamaica was slightly easier, 21 bales selling at from 1s. 9d. to 1s. 10d. for fair slightly rough and 1s. 8d. for part rough. Native was neglected, five bales being bought in at from 9d. to 1s. 2d. for inferior pale to fair bright red. Privately Mexican is quoted 8½d. per lb. c.i.f.

SENNA.—Steady. The bulk of the Tinnevely was of the common small yellowish leaf, which sold at from 1½d. to 1½d. per lb.; ordinary to middling greenish sold at from 1½d. to 2d.; sea-damaged to fair *pods 1d.* subject to 1½d. per lb. Ten bales of Alexandrian leaf sold at 4½d. per lb. for fair slightly broken and 3½d. for sea-damaged.

TAMARINDS.—Steady. Four barrels fair West Indian sold at 12s. 6d. per cwt. subject.

TONKA-BEANS.—A single box of ordinary reddish Para sold at 9s. 7d. per lb.

WAX (BEES').—Madagascar was steady, 12 mats of fair brown block selling at 7l. 2s. 6d. Twenty-four bales of Mogador, part good yellow and one-third grey colour, sold at the full price of 7l. per cwt. Of Jamaica a single barrel offered and sold at 7l. 10s. for grey and brown mixed. Two cases of West Indian realised from 7l. 2s. 6d. for common to 7l. 12s. 6d. for good grey. Three cases of East Indian (Bombay) of doubtful quality sold at 40s. per cwt.

Manchester Chemical-market.

December 10.

There is no striking change to note since our last report. There are good deliveries of heavy chemicals on contract account, and prices all along the line, in accordance with

advances in raw material, have an upward tendency. Bleaching-powder for next year's delivery may be quoted 5l. 5s. to 5l. 10s. per ton, softwood casks on rails. Caustic soda, 76 to 77 per cent., 10l. 7s. 6d. to 10l. 10s.; 70 to 72 per cent., 9l. 12s. 6d. to 9l. 10s.; and 60 per cent., 8l. 12s. 6d. to 8l. 15s. per ton in 5 to 7 cwt. drums for works. Crystal carbonate, 6l. 7s. 6d. per ton, 2-cwt. bags, f.o.r. Bicarbonate of soda, about 5l. per ton at works. Ammonia alkali steady at 3l. to 3l. 12s. 6d. f.o.r. Salteake in fair request. Borax in moderate demand at 17l. per ton. Bichromate of soda 3d. to 3½d. per lb. Potashes of all kinds move slowly. Sulphate of potash quiet at 10l. per ton. Alum steady at late rates. Sulphur inquired for. Flowers, 8l. 10s. to 8l. 15s. in 2-cwt. bags; roll, 6l. 15s. to 6l. 17s. 6d., 3-cwt. barrels; rock, 5l. 10s. to 5l. 15s. in 3-cwt. bags; and recovered, 4l. 12s. 6d. to 4l. 15s. per ton, all f.o.r. at works. Yellow prussiate of potash does not appear to be following the generally expected course of being much lower for next year's delivery. Stocks have been worked off, and as high as 8d. per lb. is being asked. There is a rather quiet feeling in white powdered arsenic at 24l. per ton, delivered here. Rectified sulphuric acid steady at 4l. per ton for acid 167° to 170° Tw. Coal-tar products steady. Sulphate of ammonia 13l. 16s. 3d. per ton f.o.r. Manchester.

Heavy Chemicals.

Both the home and export branches of the heavy-chemical market continue to maintain a satisfactory activity as regards demand, and consequently values keep up well. The position in the Tyne centre is one of considerable uncertainty at the time of writing, owing to the railway difficulty, and unless a settlement is effected promptly manufacturers will be affected by consequent lack of fuel. As regards deliveries of chemicals, this can be done by shipment in some cases instead of rail, but, of course, only as long as stocks hold out.

SULPHATE OF AMMONIA is firmer in tone, and higher ruling figures are looked for. Present nearest: Beckton, 25-per-cent. ammonia guaranteed, 13l. 12s. 6d.; London terms, 13l. 6s. 3d. to 13l. 7s. 6d.; Leith, 14l.; Liverpool, 14l.; and Hull, 13l. 17s. 6d.

LEAD PRODUCTS are in fair demand and somewhat steadier in tone. Present nearest: Dry white-lead, 25l.; red lead, 21l.; pig lead, about 19l.; and sheets 24l. per ton Tyne.

BARIUM PRODUCTS mostly tend higher in value; demand is normal. Blanc fixe, pure precipitated barium sulphate, in paste form, 6l. 10s. to 6l. 15s. per ton in 8 to 9 cwt. casks. Mineral sulphate of barytes, ground, 35s. to 90s. per ton, according to quality, quantity, and package. Chloride of barium is distinctly on the firm side at 6l. 5s. to 7l. 5s. per ton, in 8 to 10 cwt. casks. Precipitated carbonate of barium firmer at 5l. 12s. 6d. to 6l. 7s. 6d. per ton in 2-cwt. bags, according to quantity. Crude calcined barium sulphide, 70 to 75 per cent. BaS, 5l. 10s. to 6l. per ton, in 5 to 6 cwt. casks. Hydrate of barium crystals, 12l. 5s. to 13l. 5s. per ton, in 6 to 7 cwt. casks. Concentrated solid, 58 to 60 per cent. BaO, 13l. 10s. to 13l. 15s., in 6 to 7 cwt. drums; and crushed, 15l. to 15l. 5s. per ton, in 6 to 7 cwt. casks.

Continental Drug and Chemical Markets.

ERGOT.—Russian on the Hamburg market for prompt and near delivery has been dealt in at m.8, and German at m.7.75 per kilo. net. It is difficult to foretell future developments, but if prices decline there are plenty of buyers who have not yet covered themselves sufficiently.

GALLIC ACID.—The manufacture is said to be of little interest to the makers owing to the low value, which shows no prospect of improvement, the value being from m.380 to m.400 per 100 kilos.

GLYCERIN.—A Marseilles report states that there is a lack of business in the international glycerin market, only small contracts being booked: 80-per-cent. crude is quoted fr.123.50, and saponification quality fr.152.50; most buyers offer fr.125 and fr.150 respectively, while sellers ask fr.130 and fr.155 for near delivery and contracts over next year. The small purchases have been made on American account, so that an improvement in the market is not impossible. American cables, however, report a weaker market for dynamite glycerin at 18c. per lb.

IPECACUANHA.—Rio is in good supply on the Hamburg market, but there are few offers of Cartagena; prices of both descriptions move between m.19.50 and m.19.75 per kilo.

MARSHMALLOW.—New German is now offered at prices ranging from m.85 to m.140 per 100 kilos, according to quality. The crop is considerably less than last year, principally on account of the fact that the weather during August and September was cold and dry. After a lengthy period of rain, hard frost set in at the beginning of October, and this prevented further development of the roots,

resulting in a smaller and inferior crop. Principal requirements should not be covered at present, as it is possible in the dull state of business they may be cheaper.

MILK-SUGAR.—Since the last report practically no change has taken place in market conditions, and with an active output both at home and abroad prices are maintained. As milk supplies continue to be scarce, there is a certain lack of supplies, but it is to be hoped that in the new year, and at the latest in spring of 1913, milk will be more plentiful.

TIN OXIDE.—The price of tin has remained steady, but tin oxide is depressed on account of competition; during the first half of November it was m.425 per 100 kilos., but it has now been reduced to m.419.

WORMSEED.—A further increase is expected this month, as the stocks of cheaper stuff are practically cleared, and because the monopoly is not satisfied with the small advance up to the present, the crop this year having been poor; from m.255 to m.265 per 100 kilos. is quoted.

Next Year's Drug-Auctions.

The following dates have been fixed:

	Jan.	Feb.	Mar.	April	May	June	July
<i>Usual</i> ...	9	6	6	3	1	26	24
<i>New Drugs</i> ...	23	20	19	17	29	12	10
	Aug.	Sept.	Oct.	Nov.	Dec.		
<i>Usual</i> ...	21	18	16	13	11		
<i>New Drugs</i> ...	—	4	2-30	27	—		

Norwegian Iodine.

H.M. Consul at Christiania (through the "Board of Trade Journal") reports a Press announcement to the effect that a movement is on foot for the erection of an iodine-factory on a large scale in the neighbourhood of Stavanger. It is intended that the factory shall be capable of treating large quantities of kelp from Jæderen, Lister, and Karmöen, and that other products besides iodine will be produced. Communications in this connection should be addressed by British firms to the British Vice-Consulate, Stavanger. Supplementing the above from another source, we hear that a Stavanger firm who export kelp, among other products, sound a note of warning against this plan. The greater part of the demand for iodine, they state, is supplied by South America, and the erection of a new iodine-factory outside of the Convention is likely to bring about complications. The "Vestlandet" states that the iodine trust has made large profits for many years, and it is natural that Norwegian capital wishes a share of these.

Cocaine Factories in Java.

At a meeting of the Kedirische Landbouw-Vereeniging held recently in Java, it was decided to issue a pamphlet giving details of a proposal for the erection of a cocaine factory. After those interested have had time to consider the proposal a further meeting will be held to decide whether or not a syndicate will be formed to erect a factory. It is considered in some quarters that the recent rise in cocaine prices will make the planters less disposed to erect a factory. It is stated that in West Java 30,000 florins have been promised for a factory at Bandoeng if plans satisfactory to the guarantors are forthcoming.

Mercury in Surinam.

According to the Dutch journal "De West," mercury ore has been discovered recently north of Grankreek in Surinam. Samples of the ore have been examined, both in Holland and the United States, and found to be of rich quality. There is, however, some dispute as to who discovered the deposit and who owns it. It is claimed, on the one hand, that the deposit was discovered by an American named Headly on land belonging to Messrs. Sedney & Robles, and a syndicate has secured an option on this land. On the other hand, a correspondent of "De West" asserts that the creek in which the ore occurs lies in the Wijn-gaarde concession, and that it has been known to occur there since 1904. At first the occurrence was thought to be of no economic importance, but a sample assayed recently in the United States showed 78 per cent. of mercury. As a result an engineer named Dawson went to Surinam in September last. He apparently met with some opposition from Messrs. Sedney & Robles, who, as already stated, regard the creek as their property. Both sides now have exploring parties at work, but Mr. Dawson has not yet found the parent rock from which the samples came. There is apparently nothing to show so far that anything but isolated small samples have been found, and, of course, the value of the find depends not only on the quality of the ore, but also on the quantity available.

TARTARIC ACID.—The exports from Marseilles during 1911 amounted to 1,607 tons.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Honoured in his Own Country.

SIR,—At Worthing on Friday, December 6, the following resolution was passed unanimously:

"That this meeting of Worthing chemists desires to place on record its hearty appreciation of the long and faithful services of Mr. A. B. Cortis as Local and Divisional Secretary to the Pharmaceutical Society in Worthing." Mr. Cortis has resigned after holding office for twenty-eight years.

I am, yours faithfully,

Worthing, December 9.

W. FROST.

Liquor Pancreaticus (Benger).

SIR,—We wish to correct Mr. John C. Umney's statement with reference to Liquor Pancreaticus (Benger) as reported on page 56 of last week's issue. The late Mr. Benger left London in 1864 and came to Manchester. Mr. Benger's work on the pancreatic enzymes was all done in his own laboratory at 7 Exchange Street, Manchester. This commenced in 1879, fifteen years after leaving John Bell & Co.'s. It is evident, therefore, that there is some confusion somewhere. Mr. Benger did work on glycerin while in London, and it is probable that it was in the experiments on this article, but certainly not on Liquor Pancreaticus (Benger), that Mr. Umney, Senior, took part.

Yours truly,

per pro. Benger's Food, Ltd.,

Manchester, December 9. A. H. BARLOW, Director.

[A visit of Mr. Charles Umney to London this week enabled us to have a chat with him on the subject. Mr. Baden Benger, Mr. Standen Paine, and he were at Bell's together in 1863-64, Mr. Umney having charge of the laboratory. During part of the time of Mr. Umney's supervision Mr. Benger conducted a series of experiments on the solvent action of glycerin on the digestive ferments and other substances. It was to these experiments solely that Mr. Umney referred.—EDITOR, C. & D.]

A Disclaimer re Lemon Oil.

SIR,—I have in my possession a postcard circulated among lemon-oil buyers which reads as follows:

DEAR SIRS,—We are in receipt of a cable from Messina, and, on behalf of our Principals, can offer you New Crop, guaranteed genuine Oil of

LEMON at 6s. 6d. per lb.

net c.i.f. London 3 months draft or 1½ per cent. discount for cash against Bill/Lading shipment between December and June next in equal proportions.

Parry's analysis guaranteed.

Yours faithfully,

BERENGER FRÈRES, LTD.

I shall be obliged if you will be good enough to insert this disclaimer in your next issue. I emphatically protest against the use of my name by this firm, and I do not, nor ever shall, undertake any analyses for them. I know nothing of the quality of their lemon oil, except that it is offered below the market value of pure oil, and trust that no one will pay cash against bills/lading on the strength of the words "Parry's analysis guaranteed," for I certainly do not guarantee the oil in the remotest degree.

Yours faithfully,

ERNEST J. PARRY.

Division of the Minor Examination.

A Member (130/35) of the Nottingham and Notts Pharmaceutical Association sends us the following interesting statement on this subject:

At a recent informal Fireside Chat held in connection with the Nottingham Association the subject of the Minor

examination came up for discussion. There was a unanimous expression of opinion that the great disparity between the stringency of the Examination and the benefits which accrue to the holders of the certificate is a source of danger not only to the craft, but also to the public well-being, as fewer youths are entering the business through the orthodox door, while the ranks of the unqualified dealers in drugs are being rapidly recruited.

The difficulties of the situation were fully realised, and no lowering of the standard of examination was considered to be desirable; the ultimate remedy lies along the lines, frequently advocated by the Nottingham Association, of the extension of the schedule of drugs the sale of which is restricted to registered men. Some amelioration of the strain could be immediately effected by the division of the Minor, as the present method of taking all the subjects at one time is burdensome, unnecessary, and encourages cram. It was considered that the most suitable division would be made by taking first the sciences which form the basis of pharmacy—viz., inorganic and organic chemistry, physics, and botany. The Pharmaceutical Society might hold an examination on these subjects at suitable intervals, but the certificates of any University College or Technical School whose examinations reach the standard fixed by the Society should be accepted, while a further advantage would be gained by permitting apprentices to sit for each subject separately. The final portion of the Examination, which would include the purely pharmaceutical subjects—*materia medica*, pharmacy, dispensing, prescription-reading, etc.—would be entirely in the hands of the Society, and candidates must have attained the age of twenty-one and have passed the first portion of the Examination.

Suggestions were made regarding the inclusion in the syllabus of such subjects as business knowledge, book-keeping, therapeutics, antidotes, etc.; but these, with the exception of antidotes, were thought to be outside the purpose of the Examination. These Social Chats are becoming quite a feature in the life of the Association.

National Insurance Dispensing.

SIR,—Here are some data for Mr. J. T. Sambrook to go upon, as requested in last week's *C. & D.* I dispensed last year some 3,062 prescriptions for one society, for which I received 46l. 2s., at the rate of 2s. per head per annum. An easy calculation will show how much each bottle cost, and how many members there were. This included half-price for bottles, but patents, proprietaries, dressings, bandages, etc., were extra. By a mutual understanding with the doctor I lost nothing, and it was good work for apprentices.

Yours truly,

X. Y. Z. (151/69.)

SIR,—*Re* the conditions of dispensing medicines under the National Insurance Act (Provisional Regulations): "30. (1) Where an insured person is resident in a rural area at a distance of more than one mile from the business of a chemist," etc. This provision will hit some of us, who are rural chemists, pretty hard in favour of the doctor, and it is a doubtful advantage for the patient. If he can visit the doctor for the medicine, surely it will not be a hardship to come a few yards further (or fewer according to which end of the town the patient lives) to obtain his supply from the chemist. The limit should be a two-mile one at least, if it cannot be dispensed with altogether, for the medicine can no doubt be delivered (if necessity requires) as expeditiously by the one as by the other. In many small towns there are a number of farms and hamlets within a two-mile radius which will supply a considerable number of insured persons, but the doctor will get most of these. This condition seems to me grossly unfair, while of doubtful advantage to the patients. It is to be hoped that the authorities concerned will make some more equitable provision.

Yours truly,

Ashburton.

E. R. Moss.

SIR,—I would like, through the medium of your columns, to protest against Clause 30 of the Amended Regulations regarding medical benefit. The clause provides that a practitioner may supply his insured patients with medicines if such patients reside at a distance of over a mile from a chemist. In practice this will mean that the country chemist loses 50 per cent. of his insured customers at least, and is a shameful betrayal of his rights. The clause is a barefaced surrender to the doctors and a direct violation of the spirit of the Act. If our leaders have acquiesced in the inclusion of the clause, they have

"sold the pass" and proved themselves incompetent. Henceforth the fight must be a soldiers' battle. I would counsel every chemist to write his M.P. protesting against the clause, and follow this up by resolutions from district societies to Mr. Lloyd George and the Prime Minister.

Yours faithfully,

Golspie, December 10.

JAMES MENNIE.

[Is there any reason to suppose that doctors in Scotland who do not at present supply medicines to their patients will begin to do so now? The object of the provision is to enable existing arrangements to be continued. We presume that no area can be "rural" which by other Acts of Parliament is considered "urban"—*e.g.*, under the control of Urban District Councils.—EDITOR, *C. & D.*]

SIR,—With reference to the letter by Mr. J. J. Jackson, the Pharmaceutical Standing Committee (of which I am not a member) has already more than justified its existence, and will very shortly do much more of which all pharmacists need be grateful; heaven help them had the Committee not bestirred itself! Let Mr. Jackson remember his less fortunate brethren and cease casting innuendoes against an honourable Society doing the best for its members. I note he is candid enough to say he knows nothing of the subject. Mr. Jackson might himself have been a member had he sufficient local interest in his favour. The Committee is doing excellent work, it does not work in secret, and our case will very well bear discussion in broad daylight, thanks very greatly to the Committee he indirectly slanders. Now, will Mr. Jackson be a man: either withdraw his letter or resign from the Society of which I regret to note he is a member?

Yours faithfully,

EDWARD MILLER.

Divisional Secretary South West Ham.

SIR,—I was pleased to see the letter of Mr. Couch in your issue of November 30 *re* Insurance dispensing by single-handed men. In this district there are one doctor and one chemist for possibly 1,000 insurables. This number at 2s. *per capita* would bring in the "handsome" sum of 100l. per annum. The doctor's bill for drugs, etc., now averages 140l., and he has possibly twenty to thirty bottles nightly to dispense in winter time. Now, my closing hour on three days is seven o'clock, with Wednesday half-holiday and no Sunday duty. If I go on the panel there will be at least an hour extra daily, with no half-holiday or Sunday, not to mention night-work. I fail to see how the remuneration offered to chemists will pay for drugs, let alone recompense us for extra time and trouble involved, so have already informed my friend the doctor to make his arrangements for continuing dispensing. I may add that I have experienced twelve years of club-work, and so know the class of people one will have to cater for.

Yours, etc.,

SINGLE-HANDED. (151/55.)

[Besides the 1,000 insurables there are women, children, and other unisurables still to be dispensed for apart from the Insurance Act. Our correspondent appears to have overlooked them.—EDITOR, *C. & D.*]

Pharmacist (154/64) informs us that a circular has been issued in Exeter by a limited company this week, in which the following announcement occurs:

National Insurance Act.

Section: Dispensing of Prescriptions.

The full benefits under this section will be obtained by bringing your prescriptions to us.

By doing so you are assured of absolute accuracy, drugs and medicaments that are perfectly pure, fresh, and of full standard strength, and prompt attention.

Note.—All the prescriptions made up at our pharmacies are dispensed by fully qualified and experienced chemists, and are carefully checked before being sent out.

Our correspondent comments upon this and other Insurance matters, concluding: "I should like to see the whole of the chemists called together to discuss the several knotty points, but here the whole thing appears to be managed by a few of the principal ones, ignoring the single-handed man."

[Full information should be in the hands of every chemist in business this week. See the article on the subject.—EDITOR, *C. & D.*]

We have other letters on this subject in type.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Appreciations.

An *Aberdeenshire Chemist* (272/31) writes: "I have pleasure in again enclosing my subscription for another year to *THE CHEMIST AND DRUGGIST*. It is now twenty-two years since I started taking it, and I may say I am still as keen as ever on my weekly Bible."

M.P.S. (270/25), in sending his subscription to the *C. & D.*, says: "I have refrained from subscribing for the last four years for reasons best known to myself. I find, however, that I am missing sound business and general information, and, if I may say so, education, by not doing so."

P.A.T.A. Terms.

Mr. Harold Miller (Cheltenham) complains that while the earliest manufacturer-members of the Proprietary Articles Trade Association give 20 per cent. profit to retailers, many of the later members give 10 per cent. only, and he considers that the latter cannot expect the same help from the retailer which is freely given to other P.A.T.A. lines. He trusts the Council will give this matter their early attention, and suggests that a distinction should be made, such as goods bearing 20 per cent. and over to go in Class 1, and under that in Class 2.

Legal Queries.

Consult "The Chemists' and Druggists' Diary," 1912, pp. 435 to 454, where most legal difficulties are anticipated, before writing about your difficulty.

Perplexed (153/59).—Yes; you will find all particulars in the *C. & D. Diary*.

Formalin (154/17).—See *C. & D. Diary* treatise on medicine stamp duty under "Apprenticeship."

R. A. W. (153/29).—Improve yourself in the English language before worrying about the Shops Act and its effect upon you, an apprentice, in Christmas week.

Revenue (147/53).—The chest and lung balsam label makes the preparation liable on account of the use of the word "balsam"; also because it is said to be for coughs, colds, bronchitis, asthma, difficulty of breathing, etc.

Tarax (144/15).—Provided the company does not use any Pharmacy Act title, nor sell or dispense poisons, it may carry on business as drug-stores without conforming to the provisions of the Pharmacy and Poisons Act, 1903, Section 3.

Lex (152/67) asks: Can a limited company which does not employ a qualified assistant engage a dispenser with the necessary qualifications for the Insurance Act, and do the dispensing? [No; such a company cannot be put on the dispensing panel, consequently it will not get the dispensing to do.]

C. W. P. (153/58).—(1) You will observe from the Editorial in this issue that each lot of medicine dispensed or supplied to insured persons is to be paid for. The capitation-fees for medical benefit are to be paid to Local Committees by the societies, and from the pool chemists' bills will be paid. (2) Patients will not be apportioned to chemists, as they have a free choice of chemists and doctors. It is unnecessary to answer your third question in view of the foregoing.

Dispenser (145/15) asks: "Will the Pharmaceutical Society, and chemists generally, acknowledge and officially notice the apothecaries' assistants as dispensers generally on the same footing as three years' dispensers are recognised under the Insurance Act?" [We do not know what "Dispenser" expects, but the Act reserves to such assistants any rights that they possessed before the Act was passed, and these rights include that which every assistant not qualified under the Pharmacy Act may exercise—namely, the privilege of dispensing poisons under the supervision of a registered chemist.]

Doubtful (155/51).—DEED OF GIFT.—"Doubtful," fully solvent, but apprehensive as to the future, wishes to know how to execute a deed of gift of furniture in favour of his wife. [He can execute a valid deed of gift of his furniture in favour of his wife. The deed should have an inventory of the furniture annexed to it, and, in order to be effectual, must be attested by a solicitor and registered as an absolute bill of sale, in conformity with Section 10 of the Bills of Sale Act, 1878. The registration must be renewed every five

years. Until the lapse of two years, however, the furniture is liable to seizure in the event of "Doubtful's" bankruptcy.]

Langton (151/51) puts the following query: B is the landlord of a house and shop, of which A is the tenant under an agreement. A originally lived in the house portion of the premises, and has removed after a number of years. B objects to A removing from the house, and threatens to give him notice to quit, although B is a fortnight behind time for giving A six months' notice to leave. The agreement does not contain any clause requiring A to live in the house. Can A be compelled to quit upon such a notice? What must A do if B gives him notice now? ["Langton" does not state the nature of the tenancy. If, as we presume, the tenancy is "from year to year," A is entitled to six months' notice, expiring on the last day of the current year of the tenancy, unless the agreement contains a special stipulation to the contrary. If B serves a notice to quit which is too short, or otherwise defective, A can ignore it, or inform B that he does not accept it.]

Miscellaneous Inquiries.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published prices, usually 6d.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

F. G. H. (137/35).—ALUMINIUM SOLDER.—We published some time ago (*C. & D.*, October 19, 1907, p. 631) a large number of recipes for solder employed for uniting aluminium. These are for the most part alloys containing aluminium, the following being examples: (a) Tin 5, aluminium 1; (b) zinc 90, copper 4, aluminium 6; (c) tin 95 to 99, bismuth 5 to 8.

White Lead (125/64).—WHITE-LEAD SUBSTITUTES.—Various zinc salts are the best substitutes for white lead. These are advertised in this journal or *The Chemists' and Druggists' Diary*; refer also to a note on Stevenson's "Zi-Co" in the *C. & D.*, August 24, index folio 344.

J. W. R. (137/72).—LINSEED-OIL VARNISH is made by heating 80 gals. of linseed oil with 1 lb. of manganese borate for five hours. Another recipe is:

Linseed oil	...	...	...	8 lb.
Powdered resin	...	...	...	1 lb.
Oil of turpentine	...	...	...	$\frac{1}{2}$ lb.

Heat the linseed oil for an hour, add the resin, and when dissolved allow the mixture to cool before adding the turpentine.

Limerick (138/39).—CARBOY COLOURS.—See *C. & D.*, September 14, index folio 458.

E. D. L. (137/28).—The purpose of shaking the benzene, used in making gold paint, with chalk is to neutralise the acidity. You might try whether the employment of magnesia would prevent the development of the green colour which you complain of.

Hants (141/21).—REMOVAL OF HAIR BY ELECTROLYSIS.—We do not know of any book devoted to this subject. The method has been described more than once in the *C. & D.*, the last time December 31, 1910, index folio 968; there is also a good description of the process in Quain's "Dictionary of Medicine" (Longmans, 21s.).

J. B. (142/52).—ESSENCE OF COFFEE.—The following recipe is from "Pharmaceutical Formulas":

Freshly ground coffee	...	...	2 lb.
Freshly ground chicory	...	...	2 lb.
Boiling water	...	...	1 gal.

Mix, cover, and keep warm for two hours, strain, press, and add 20 grains of salicylic acid to the liquor, which set aside. Reinfuse the marc in a gallon of boiling water for an hour, press, and strain. Evaporate this liquor to make 6 pints with the reserve. Dissolve in it 4 lb. of sugar and 10 oz. of caramel. If the water used is hard, add 20 grains of sodium carbonate to each gallon.

G. F. N. (141/45).—AUSTRALIAN RECIPROCITY.—All the States of the Australian Commonwealth and the Dominion of New Zealand accept the Minor certificate of the Pharmaceutical Society of Great Britain for registration-purposes

without requiring further examination. The possible exception is Queensland, which in a petulant mood some time ago threatened to retaliate if the British authorities did not at once conclude arrangements to accept Queensland certificates.

C. D. (Zürich) (142/58).—GALACTOGOGUE PREPARATION.—We are not acquainted with the prescription to which you refer, but the following information is offered regarding the preparation of fluid extract of *Galega officinalis* for promoting the flow of milk and developing the breasts.

Moisten 1,000 grams of coarsely powdered *Galega officinalis* (goat's rue) with 500 c.c. of alcohol (70-per-cent.), and pack in a percolator. Cover the moist mass with more spirit, and allow it to rest for from two to three days, then percolate until 900 c.c. of liquid extract has been obtained. Continue the percolation until the herb is exhausted, evaporate the weaker percolate, and add to the first 900 c.c. collected, so as to form a 1 in 1 fluid extract.

The following are two recipes for GALACTOGOGUE SYRUP:

1.		
Ext. galegæ aquos.		
Calc. hydrochlor-phosphatis aa.	10 grams	
Tinct. fœniculi	10 c.c.	
Ol. cumini	xxv.	
Syr. simp.	400 c.c.	

2.		
Ext. galegæ liq.	15 c.c.	
Syr. simp.	105 c.c.	
Ol. fœniculi	1 c.c.	

The dose of these syrups is a tablespoonful three or four times a day.

In the first recipe the solid extract, prepared by exhausting the herb with water and evaporating, is used. The calcium chlorhydrophosphate is the calcium-chlorhydrophosphoricum solution of the Swiss Pharmacopœia, in which work also is official tinct. fœniculi.

Frater (131/10).—Three grains of phenacetin and 5 grains of acetyl-salicylic acid are sufficient to make one HEADACHE-POWDER. It should not be taken on an empty stomach.

R. M. L. (135/68).—NEURITIS, or inflammation of the nerves, is a most intractable ailment to treat. You do not say what part of the body is affected, but change, rest, and quiet are essential in all cases. Medicinal treatment is of little service, except to allay local pain, and any rubefacient is of service for that. Radiant-heat treatment, if it can be got, has a soothing influence.

W. J. M. (136/12).—MANUFACTURE OF CONFECTIONERY.—We can only refer you to the books on the subject, lists of which we have published on several occasions—*e.g.*, April 1, 1911, index folio 494; April 29, 1911, index folio 647.

Toilet (143/64).—NIT-OINTMENT with paraffin basis. The recipe given in the *C. & D.*, November 30, index folio 838, can have the basis altered to soft paraffin or a mixture of soft and hard paraffin. It should, however, be pointed out that a paraffin basis in the case of ung. hydrarg. ox. rub. has been found to decrease to a large extent the action of that ointment as a parasiticide. Another variety of nit-ointment not requiring to be labelled "Poison" is made by mixing ext. quassia 5j. with ung. ac. carbol. lb. j.

Typhos (144/48).—COAL-TAR DISINFECTANTS.—There is plenty of practical information on the manufacture of disinfectants in "Pharmaceutical Formulas," and for the theoretical considerations you could consult Rideal's "Disinfection and Disinfectants" (Griffin, 7s. 6d.). The following is one recipe for the type of disinfectant to which you refer:

Boil together 1 gal. of crude carbolic acid (or "oils" if cheapness is required), palm oil 1 lb., soda-ash 3 lb., and water 2 gals. for two hours, replacing water so as to maintain a volume of at least 2½ gals. Set aside for several days and decant the clear brown syrupy fluid.

It is somewhat futile to try to make such disinfectants on a small scale, seeing that they can be bought very cheaply and more economically in bulk.

Nostrums (11/15).—CHRONIC HYDROCELE may be treated by repeated tapping; if a weak tincture of iodine is injected into the sac when tapped it prevents the fluid accumulating so quickly. A permanent cure may be secured by a surgical operation in which the sac is removed, or in which the sac is permanently drained into the cellular tissue. The treatment will be found in any surgical manual (such as Thompson and Miles'). The treatment of DENGUE FEVER is sympto-

matic. Fever is reduced by hydrotherapy, pains are relieved by phenazone or opium. During convalescence potassium iodide may be used for the joint pains, with tonics. For tropical diseases it is necessary to consult the very latest books on the subject and to keep abreast of current literature, as recent progress in ætiology and treatment has been so rapid.

Phenactin (146/64).—TREATMENT OF DISCHARGE.—The thin urethral discharge, most marked on sitting and on straining at stool, is very probably prostatic in origin. It may be a prostatic infection with the gonococcus, the result of an old gonorrhœa, or it may simply be caused by a chronic prostatic condition which occurs in sexual hypochondriacs. If the latter, the best treatment is hard physical exercise and an effort to put the matter out of mind. If the former, skillful treatment is required, such as deep urethral injections and perhaps dilatation with a bougie. It is a matter for a doctor with some experience of this class of complaint.

J. H. C. (148/31).—HAND TABLET.—The following is from "Pharmaceutical Formulas":

Vaseline	...	...	...	3xvj.
Hard paraffin	...	...	...	3iv.

Melt, stir until creamy, and add the following filtered solution:

Peruvian balsam	...	...	...	3ij.
Oil of citronella	...	...	...	xxij.
Oil of mirbane	...	...	...	mv.
Rectified spirit	...	...	...	3ss.

Pour into a tray to the depth of $\frac{3}{8}$ in., and when cold cut with a punch into pieces $1\frac{1}{4}$ in. in diameter.

Retails in chip box at 1d.

J. E. L. (152/31).—CULPEPER'S "ENGLISH PHYSICIAN," first issued in 1653, was afterwards reprinted many times down to the beginning of the nineteenth century. Your copy, dated 1718, is one which does not occur among the numerous examples in the British Museum, but there is no reason to expect that it is on that account more valuable. Culpeper died in 1654, so that reprints after that date do not include any work of the author's, and it is the inimitable comments of the "Master" that made Culpeper's works of value to the collector of herbals.

A. R. B. (137/14).—BROWN-LEATHER VARNISH.—The following is a good recipe for this:

Garnet shellac	...	...	...	1 cwt.
Venice turpentine	...	...	...	21 lb.
Bismark brown	...	...	...	1 lb.
Spirit	...	...	...	30 gals.

There is no more opaque soluble colour than bismark brown for this purpose.

Gentian (133/12).—PETROLEUM CONFECTIONS are made by mixing soft paraffin with sugar, gum acacia, and flavouring. We have no note of the exact proportions, but some experimental work would soon put you on the track.

R. B. C. (151/38).—BOOKS ON OIL BLENDING.—"Practical Compounding of Oils, Tallow, and Grease for Lubrication" (7s. 6d.); Hurst's "Lubricating Oils, Fats, and Greases" (10s. 6d.); Brunner's "Manufacture of Lubricants, Shoe-polishes, and Leather-dressings" (7s. 6d.). These are published by Scott, Greenwood & Son. Spon also published I. I. Redwood's "Lubricants, Oils, and Greases," but this is possibly out of print.

W. H. B. (149/53).—MOTOR-CAR TYRE-PAINT.—See *C. & D.*, June 24, 1911, index folio 928.

W. E. M. (120/7).—We do not know to what liquid you refer as being employed in the Eustachian inflator.

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Reprinted from "The Chemist and Druggist," December 15, 1862.

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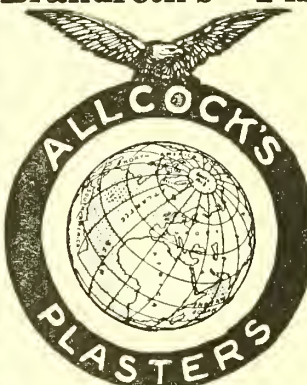
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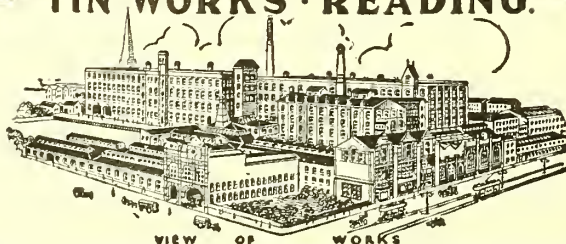
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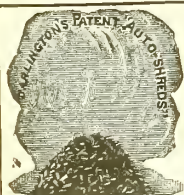
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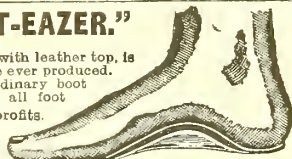
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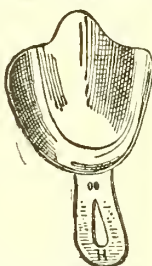
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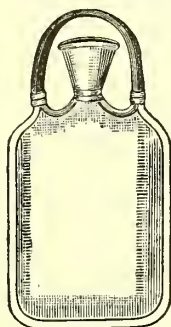
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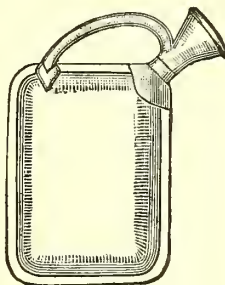
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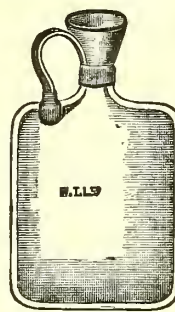
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457.



458.



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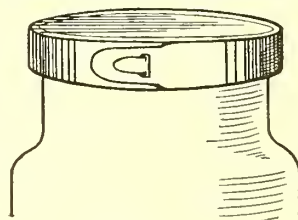
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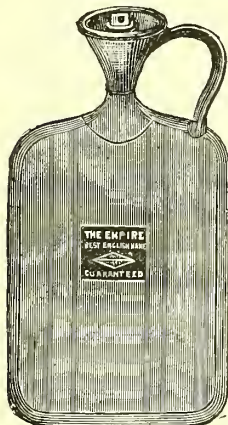


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Light	"	2 9	3 0	3 5	3 6	3 10	4 6	4 8	5 0	6 1
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" " felt	"	0 5	0 5	0 6	0 6	0 7	0 7	0 8	0 10	1 0

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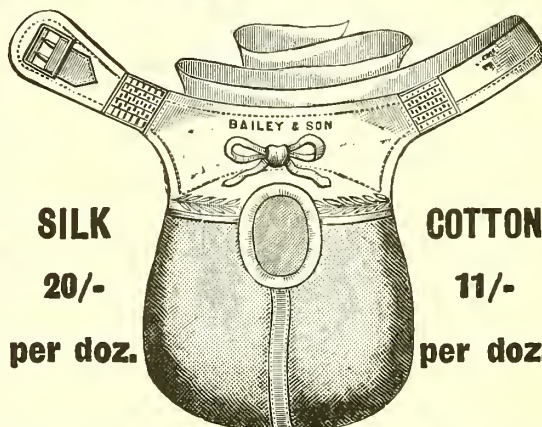
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(Wholesale only.)

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SODA-WATER MACHINERY.

By the use of our latest Back Pressure Filling Machines only half the usual quantity of Gas is used for the manufacture of the Highest quality Soda-water, either in Syphons or Bottles.

THE "COMPACT" MACHINES

are specially designed for
CHEMISTS, GROCERS, RESTAURATEURS,
and everyone to whom space is an object,
and can be used for filling Syphons, Codd's
Bottles, or Cork Bottles.

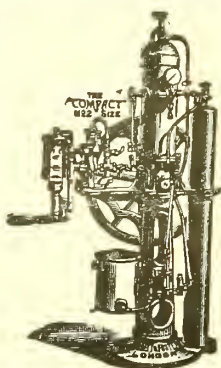
OCCUPY LITTLE SPACE!

ARE READY FOR USE IMMEDIATELY!

REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the
highest class and greatest purity.

Write for Catalogue.



A COMPLETE APPARATUS—
CAPABLE OF PRODUCING OVER
300 DOZEN LARGE BOTTLES
OF AERATED WATER PER DAY
—FROM £20.

Bottles, Boxes, Essences, and all
Requisites for the Trade at
Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26th Eagle Wharf Road, N.

Proprietors of Galloway Bros., Bolton.



THE NATURAL MINERAL WATER OF **VICHY-CÉLESTINS**

(STATE SPRING.)

For DISEASES of the KIDNEYS, GRAVEL, GOUT, RHEUMATISM,
DIABETES, &c.

VICHY-ETAT PASTILLES

Two or three Pastilles after each meal facilitate digestion.

CAUTION.—Each bottle from the STATE SPRINGS bears a neck label with the word "VICHY-ETAT" and the name of the SOLE AGENTS:—

INGRAM & ROYLE, LTD.,

Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

And at LIVERPOOL and BRISTOL.

VITTEL

VOSGES,
FRANCE.

*Vittel Spa has many
attractions for visitors.*

*Full particulars
on application.*

GRANDE SOURCE.

The TABLE WATER for Arthritis,
Gout, and Kidney Troubles.

SOURCE SALÉE.

The TABLE WATER for Constipation,
Complaints of the Liver and Stomach,
Gall Stones, Glycosuria, &c.

10,000,000 BOTTLES SOLD ANNUALLY.

VITTEL, 12 Mark Lane, LONDON, E.C.



By Appointment
Liquor
Distillers to
H.M. The King.

JUNORA

WINE OF HEALTH

Introduce your customers to Junora. A glass of this delicate dry appetising wine makes the best of all cocktails. It creates appetite and strengthens and invigorates the nerves.

Proprietors—HUMPHREY TAYLOR & Co., Ltd. (Est 1770), 45 New Oxford Street, London, W.C.

Licoricine
ACTS LIKE
MAGICFor Coughs, Colds, Asthma, Bronchitis,
Influenza, Whooping Cough, &c.

7½d. size...	...	...	6/3 per doz. net.
1/1½ "	...	...	10/- " "
2/9 "	...	...	25/- " "

£2 worth Carriage paid. £5 worth and upwards, subject to
5% discount. Minimum Retail Prices, 7½d., 1/-, and 2/6.N.B.—This allows the Chemist a net profit of
25%, or more than 3d. in the 1/- on £5 lots.**MANDALL & CO., LTD.,** Manufacturing Chemists,
Tower Works, Stockton-on-Tees.Proprietors of **Licoricine** "RED BOTTLE OF ST. PETER'S OIL,"
and "SPASM DROPS."**H. E. KERSHAW, Ltd.**

131 Curtain Road, LONDON, E.C.

IMPORTERS OF

SHELLAC

Of all kinds.

Manufacturers of

WHITE SHELLAC**"SOLAZZI" LIQUORICE JUICE****THE CHEMISTS' BRAND.****'The Lancet' says: 'Of Standard Purity'**

Recommended also by 'The British Medical Journal,' 'Health,' 'The Chemist and Druggist,' 'Food and Sanitation.'

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

:: The NEW PURE LIQUORICE Juice ::**APOLLO.**The makers of the well-known brands of Pure Block Juices "V.B." and "B.X.," who are the
largest manufacturers of Liquorice in the World, beg to notify the Trade that they now manufacture
a high-class **PURE STICK JUICE** which they have placed on the market under their registered
brand "**APOLLO.**"The same guarantee of absolute Purity, which for the past sixty years has been given with
their Block Juices, equally applies to their new stick "**APOLLO.**"

Can be obtained of all the leading wholesale Houses.

TO SWELL YOUR BANK BALANCE

INCREASED RETURNS—THE ONLY WAY.

What nearly every Chemist to-day feels *most in need of IS INCREASED RETURNS.* His profits are not what they were, his expenses constantly tend upwards, and competition was never so keen.

Diagnosis is easy, the remedy not always apparent, for to increase returns more custom must be *brought in.*

**DROP
US
A
POST-
CARD
TO-DAY**

for Sample
Packet
and Terms.

We are prepared to show you how we will
help you to largely increase your returns.

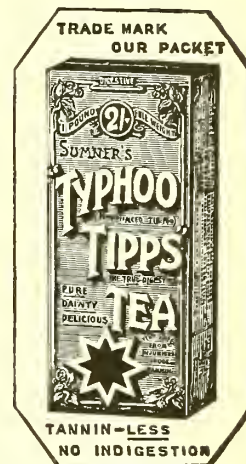
IT WILL COST YOU NOTHING !

Then why not investigate ?

SUMNERS *Typhoo* TEA LIMITED.

HEAD OFFICE. (FOR ALL CORRESPONDENCE)
CASTLE ST. BIRMINGHAM.

LONDON { CLEARING OFFICE: LLOYDS AVENUE HOUSE: E.C.
BONDED STORES: COMMERCIAL ROAD: E.



HORLICK'S MALTED MILK

(In Powder Form).
No Cooking. Prepared instantly by stirring
— vigorously in water, hot or cold —

THE FOOD that BRINGS RESULTS

The first thought of experienced dietitians when selecting a palatable, nourishing, easily assimilated food.

¶ The wholesome, invigorating principles of pure milk and choice malted grain, so prepared as to be properly assimilated in the feeblest conditions.

¶ Used more extensively every year in the feeding of infants, and as a supplementary nutrient for growing children. Also with increasing confidence by adults as a table beverage in the home—superior to tea or coffee at meals—and an efficient corrective of insomnia taken hot before retiring.

Endorsed by the Medical Profession.
Recommended and sold by all Chemists, in three sizes: 1/6 2/6 and 11/-

ADVERTISING MATTER PREPAID ON REQUEST.

Horlick's Malted Milk Co.
SLOUGH, BUCKS.

Lofthouse & Saltmer, Ltd.

— Wholesale and Export Drug —
Merchants, Manufacturing Chemists,

HULL,

invite the attention of the Trade to the following well-tried preparations, which carry a big P.A.T.A. retail protected profit, and are well known and valued by the public in many parts of the country.

Losall's Asthma Remedy.

Very effective Remedy for Asthma, Bronchitis, &c.

PROTECTED RETAIL PRICE	DOZ. NET.
1/-	7/6

Losall's Salt.

The popular Remedy for Eczema, Gout, Rheumatism, and Biliousness. Well advertised.

6d.	3/6
1/-	7/-
1/6	10/6

Losall's Com-pound Sulphur Soap.

A valuable emollient medicated Skin Soap, especially for use in Eczema cases.

1/-	8/-
-----	-----

Losall's BALL ROOM Floor Polish.

Produces a smooth surface beneath the Dancers' feet. No dust.

1/-	7/-
-----	-----

Malted Food.

Usual 1/- size, lever lid tins, name and address free on 3 dozen. Special design label, with name and address on gross orders, if desired.

—	4/6
---	-----

London Agents: F. NEWBURY & SONS, Ltd.

11/6

WILL BRING TO YOUR COUNTER

ONE DOZEN BOXES

VALDA

PASTILLES

The Huge Advertising we are doing just now, and which we intend doing all along the Winter Months, fully justifies the purchase.

A DOZEN BOXES OF VALDA WILL
PROVE A QUICK-SELLING STOCK

DON'T BE TAKEN UNAWARES.
AVOID DISSATISFYING CUSTOMERS,
BY NOT STOCKING "VALDA"

All Wholesalers Stock Valda. Showcards on Application.

VALDA Laboratories & Works,
13 HYTHE RD., WILLESDEN JUNCTION, LONDON, N.W.



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 14, 1912

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

It pays to pay for advertising
in this Supplement

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON (South of Thames).—First-class locality; Dispensing and Retail Business, giving a net profit of over £400 per annum; convenient residence; held on lease; price £1,200.

2.—BANKS OF THE THAMES.—Old-established concern; returns about £1,200 per annum; full profits; large stock, above the average; moderate house; vendor being about to remove South will accept £800; stock and fixtures estimated at £650.

3.—LONDON, S.E.—Cash Retail trade; good situation; returns between £950 and £1,000; gross profit £380; double-fronted shop; attractive windows; price £775.

4.—LONDON (West End). — Dispensing and Retail Business; easily extended; good-sized house; full particulars on application; personal reference desirable; part payment entertained; vendor retiring.

5.—MIDDLESEX (Death Vacancy). — For immediate Disposal. established Business; returns £750; convenient business premises and residence; price £600.

6.—LONDON, E.C.—Old-established Business, Retail and Dispensing; returns last year £707; gross profit £325; good prices being obtained; roomy house, bathroom, private entrance, garden; rent moderate; price £225; or offer entertained.

7.—SURREY.—Retail, Dispensing, and Photographic; excellent position; returns, present rate, about £600; scope for considerable extension; vendor having taken up appointment abroad will accept reasonable terms; further details on application.

8.—CHESHIRE.—Very good Business, capable of extension, situate in good position; returns exceed £1,200; net profit £325; price £750.

9.—SOUTH COAST (Fashionable Health Resort).—First-class Dispensing Business; returns £1,100 (about); excellent position, facing the sea; the investment is well suited to one requiring residence in a mild climate; terms reasonable.

10.—GLOUCESTERSHIRE.—Unopposed Business; returns about £500; net profit £160; comfortable residence; rent £18; price £350, estimated value of stock and fixtures.

11.—GOOD-CLASS TOWN ON G.W. LINE.—Very nice Business, capable of extension; situate in best position; returns £850; profits above the average; terms, lease and goodwill £150, stock and fixtures at valuation.

12.—DEVONSHIRE.—Thoroughly sound Retail, Dispensing, and Prescribing Business, situate in busy market town; returns £1,200 per annum; excellent premises; to effect a quick sale vendor will accept £900.

13.—SOUTH COAST.—Dispensing and Retail Business; present returns between £1,400 and £1,500 per annum; well-appointed shop; price £900.

14.—KENT (30 miles out).—Good-class Retail and Dispensing Business; returns over £1,400; net profit £313; books kept by an accountant; double-fronted shop, best position, near station; good house and garden; rent £65; 21 years' lease; offer wanted.

Particulars of any of the above will be furnished on application. N.B.—NO CHARGE TO PURCHASERS.

TO CHEMISTS AND DRUGGISTS.

WANTED—Several first-class Businesses in Town or Country, returning from £3,000 to £4,000 per annum, which will bear the strictest investigation. Adequate means for immediate purchase are at command. Correspondence invited.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.

GIVES PERSONAL ATTENTION TO ALL VALUATIONS. — AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

- 1.—DURHAM COUNTY.—Several Retail for Disposal, all sizes.
- 2.—CHESHIRE.—Returns £750; net profit £230; valuation £500.
- 3.—LEICESTERSHIRE.—In prosperous Country town; net profit £180; plenty of scope; rent £40; price £225.
- 4.—MIDLAND HEALTH RESORT.—Best-class Dispensing Business; net profit £500; good house and shop; established nearly a century; price £1,500.
- 5.—SOUTH-WEST OF ENGLAND (Fashionable Watering Place).—Returns £1,250; net profit nearly £300; price £950; Light Retail and Dispensing; 5,000 Prescriptions annually.
- 6.—LIVERPOOL.—Several Businesses for Disposal; prices £350 to £750; write us, stating wants.
- 7.—LEAMINGTON SPA.—Nice Light Retail and Dispensing Business; splendid opening for addition of side-lines; net profit £200; offered at much less than value of stock and fixtures, £300; good opportunity for up-to-date man.
- 8.—LONDON, S.W.—Returns £750; net profit £200; price £500.
- 9.—HANLEY (near).—Returns over £500; net profit £200; price £350; good position.
- 10.—BOURNEMOUTH (near).—Returns about £700; net profit £280; good position; price £550; net rental £18.
- 11.—TORQUAY (near).—High-class Retail; unique position; returns about £900; net profit £350 (about); established by vendor (who is now retiring) nearly 25 years; price £400 down and balance £250 by easy instalments.

VALUATIONS

conducted upon the shortest notice. Fees in no case exceed that charged by other valuers. London or provincial; 50 years' sound and practical experience; correspondence treated confidentially.

PARSON C. BAKER

174 VICTORIA ST. LONDON, S.W.

recommended by—MESSRS. BARRON, HARVEY & CO.

Telephone:

No. 27 Victoria.

MESSRS. MEGGESON & CO.

MESSRS. BARCLAY & SON, LTD.

Gives personal attention to all Commissions for Sale, Purchase, or Valuation on moderate terms; quotations free.

P. C. B. has had longer and more varied experience than any other trade valuer; actively engaged over 40 years, Wholesale and Retail, town and country, Dispensing and Agricultural; credit and cash and qualified to advise on any difficulty.

Vendors invited to send particulars, in confidence.

Purchasers stating requirements can have selection from Register of Businesses of all classes, sizes, or places from £50 to £2,000.

IN fashionable town, Midlands.—A good-class Dispensing Business; 3,000 new Prescriptions annually; returns £1,500; rent £100; or premises can be purchased; net profits £500.

IN capital town, Midlands.—Old-established Family and Cash Retail; returns £1,500; price, one year's net profits as goodwill and valuation of stock and fixtures.

MARKET town, Eastern Counties.—Good Agricultural and Family Business; returning £2,000; net profits £500; price £1,000; vendor retiring.

TOMTOM

Telegraphic Address:

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers.

Businesses transferred privately.

45A MARKET STREET, MANCHESTER.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to purchasers.)

- 1.—SUSSEX COAST.—Good-class Dispensing and Light Retail; all-the-year-round trade; returns exceed £850; scope for increase; well-fitted shop and good stock; price about £400; strongly recommended.
- 2.—HAMPSHIRE.—Light Family Retail and Dispensing Business, in good town; returning over £1,000; net profit £280; low rent; good house; well-fitted shop, heavily stocked; price £750, or offer.
- 3.—KENT.—Sound Light Retail Business, in best position; returns £1,400; net profits £314; books kept by accountant; good premises; own property; price valuation, about £750.
- 4.—SUSSEX COAST (Rising Resort).—Good-class Retail Dispensing and Photographic, in splendid position; returns £1,100; excellent premises; price, valuation, about £700.
- 5.—SURREY (20 miles out).—Light Retail and Dispensing Business, pleasantly situated; unopposed; returns £670; net profit £238; modern house, every convenience; price £500; recommended.
- 6.—ESSEX.—Profitable Suburban Retail and Prescribing Business; no cutting; same hands 20 years, retiring; returns £10 to £12 weekly; can easily be increased; price £225.
- 7.—LONDON SUBURB.—Good-class Cash Retail, in fine main-road position; returns £1,550; net profit £400; handsome shop, fully stocked; price £1,000, or valuation; trial allowed.
- 8.—KENSINGTON.—Good-class Dispensing and Light Retail Business; returns between £1,000 and £1,100; net profit £350; good position; well fitted and stocked; price £350.
- 9.—YORKS (Inland Health Resort).—First-class Retail and Dispensing; returns £1,500; good profits; splendid position; elegantly fitted and fully stocked; price £1,150; worth attention.
- 10.—HOME COUNTY (under 20 miles out).—Old-established good-class Business, with valuable Proprietaries; returns £1,640; good profits; central position of market town; commodious premises; price £800.
- 11.—DEVON COAST.—High-class Business in very best position; returns £690; net profit about £350; vendor retiring; unlimited scope in younger hands; price about £650; £200 can remain.
- 12.—CHESHIRE.—Unopposed good-class Business in rapidly growing district; returns £565; net profit £200; good house and garden; price £335; strongly recommended.
- 13.—DORSET.—Light Retail and Prescribing, with own Specialities and Dentistry; returns £670; net profit £284; low rent, on lease; good house; best position; fully stocked; price £550.
- 14.—BANKS OF UPPER THAMES.—Sound, good-class Retail; returning about £500; very profitable; scope for increase; low rent; attractive shop, well stocked; price for quick sale £350.
- 15.—VICTORIA STATION (near).—Light Retail and Dispensing Business, in splendid position; returns £1,050; scope for doing £1,500; price £650, or £100 and valuation.
- 16.—HAMPSTEAD.—For immediate Sale, good-class Retail and Dispensing Business; returning £1,250; good profits; main-road position; handsomely fitted and well stocked; price £600.

BUSINESSSES WANTED. We are in immediate want of sound concerns in all parts from £500 to £3,000. Cash buyers waiting. Strictest privacy guaranteed. Intending vendors cordially invited to write for our terms. No sale, no charge.

VALUATIONS FOR STOCKTAKING. Have you read our pamphlet on the necessity and advantages of Stocktaking? It should be read by every Chemist in business. Sent free on application, together with our new and revised terms. 42 years' practical experience.

BUSINESSES for DISPOSAL

8s. 6d. for 50 words or less : 6d. for every
10 words or less beyond, prepaid.

COLONIAL BUSINESSES.

■ call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.

Trade circulars, samples, and printed matter can in no case be forwarded.

CARDIFF.—Light Retail and Photographic Branch Business for Sale (owing to death of proprietor), situated in a populous suburb; returns under management about £1,000; could be easily increased; good house and garden attached; stock and fixtures at valuation. Apply, "Trustees," c/o Messrs. Hicks & Co., 28 Duke Street, Cardiff.

CHEESHIRE.—Good Cash Business; turnover £1,200; a Family and Agricultural trade; fair amount of Dispensing and Prescribing, with several Specialities in good demand; nearly 50 regular selling own Proprietaries; rent £44; price about £700; well fitted and stocked; splendid windows, double-fronted. Apply, "Leyman," Evans Sons & Co., Hanover Street, Liverpool.

LONDON, N.W.—Well-established Retail, Prescribing, and Dispensing business; returns £1,200 to £1,300; modern-fitted shop and well stocked; rental £70; will accept first offer of £660; only cash buyers entertained; business will stand fullest investigation. Address 40/34, Office of this Paper.

MANCHESTER.—Handsomely fitted modern Cash Pharmacy, held on lease, main road, corner shop, 2 splendid windows; good house; comprising Light Retail, Prescribing, Photographic, and valuable Proprietaries, showing a net profit of £200, and could be easily doubled; especially good opening for Dentistry and Optics; really genuine concern in rising district; will stand any investigation; price £400 each, or near offer. "Australia" (41/15), Office of this Paper.

NOTTINGHAMSHIRE.—Old-established Wholesale and Retail Business for immediate Disposal; situate next to Post Office in the market place of growing town of over 20,000 inhabitants; no reasonable offer refused. Henry Bradfield & Sons, 21 Victoria Street, Nottingham.

SOUTH CHINA.—Very old-established Chemist's and Druggist's Business for Sale; old age sole cause of disposal; British subjects to be qualified Chemists and Germans must possess certificate of Government examination; capital required £1,000 and upwards. Apply to Bobers & Schrader, 13 Crutched Friars, London, E.C.

SOUTH YORKSHIRE.—Splendid opportunity for young man; compact, well-organised Wholesale Sundries, etc., and Perfumery Business, with several well-known and valuable Proprietaries, to be sold, as a going concern; present proprietor retiring through age; excellent connection in North England, Scotland, and Ireland; workable with small capital; price about £2,000. Apply, 39/18, Office of this Paper.

THAMES VALLEY.—Good-class Business for immediate Sale; established 20 years; same hands 18 years; well-stocked shop in busy thoroughfare; many valuable Proprietaries; large Dental, Photographic, and Optical connection; also Branch Business, which would be sold separately; death sole cause of disposal. Apply, "S., 132 Kingston Road, Teddington.

WORCESTERSHIRE.—Unopposed and in a charming locality, a good-class Light Country Retail and Dispensing Business; returns £1,000; net profit £450; every proof given, and the strictest investigation courted; modern, well-fitted shop, and well stocked; price £650. Apply, "Udal" (43/19), Office of this Paper.

FASHIONABLE Health Resort, South Coast. — Old-established Dispensing Business; unusually fine position for trade; low rent; proprietor compelled to retire through ill-health. "T. S. J." (39/3), Office of this Paper.

FOR immediate Disposal, old-established but neglected Business in Inland Scotch town; good Agricultural centre; terms easy; rent £19; good opportunity for enterprising young man. Apply, 154/23, Office of this Paper.

GENUINE Country Business for Sale, Midlands; Agricultural and Farming; good opening for Optics and Dentistry; turnover averages £500 yearly; large house and shop, on lease; rent £35; price £300 cash. Apply, 39/39, Office of this Paper.

LIGHT Retail; not long established; making £3 net weekly profit on average weekly turnover of £11; good position; well fitted; splendid opening for Photographic Apparatus, Optics, and Dentistry; grand chance for beginner; owner retiring from the trade will accept valuation. 40/8, Office of this Paper.

PROFITABLE Light working and middle class Cash Business, 10 miles North London; returns under manager £700, formerly under principal much more, making net profit £300; low rent; lease; convenient house; to effect early sale valuation of stock and fixtures will be accepted, approximately £300; no agents; good opportunity for man with small capital to save money. 39/8, Office of this Paper.

RARE Opportunity.—Genuine, smart, attractive Pharmacy for immediate Disposal, in large town, Lancashire; established over 18 years; 12 years in present hands; great scope for energetic man, qualified or not; nearly all Prescribing; very profitable; good house; low rent; price £75, or near offer. Fox & Co., Ltd., 151 Dale Street, Liverpool.

SELECT Business; handsome shop, excellent house and store-rooms; profitable Prescribing, Speciality, and Family trade, with Branch Post Office, salary £80, which above pays rent and taxes; suit energetic young Chemist with wife to assist in Postal work; owner retiring; accept valuation. "Chemist," Post Office, Levenshulme, Manchester.

£300 will buy established Branch Business, N. London, bringing in £209 net profit; rent £50; very handsome shop in busy market and rising district; books properly kept and open to investigation; part cash may remain; this is a great bargain; stock and fixtures alone worth over £400; satisfactory reason for disposal. Address, "B. B." (38/25), Office of this Paper.

BUSINESSES WANTED.

AN elderly Chemist would be glad to hear of small Country Business within 20 miles of Birmingham; good old-fashioned house and garden in select neighbourhood preferred. Apply, 39/26, Office of this Paper.

FOR SALE.

FOR Disposal (cheap) a quantity of Shop-rounds, Ointment Jars, Carboys, Counter Case and odd Fittings; to be seen on the premises. "B., 3 Great Russell Street, Bloomsbury, W.C.

FOR Sale, Plate-glass Tooth-brush Case, handsome, £1; 3-tier Carboy, Cut Glass; 100 odd Shop-rounds, 3d. each; 3-tier round Counter Glass Stands, 3 Shelves; A. & P. Homeopathic Case, bent front and upright, 15s.; Studio 10 by 8 Camera, background, Lenses, Condensers, etc. (cost £30); cash or exchange for Optical goods or Optical fittings, Mirrors, or Stock. 40/21, Office of this Paper.

SHOP Fixtures, complete set, newly polished; a complete shop to suit beginner or Branch; £35 or nearest offer; no reasonable offer refused; must sell. Apply, Birkett, Chemist, Accrington.

TENDERS.

WILLESDEN URBAN DISTRICT COUNCIL.
ISOLATION HOSPITAL.
CONTRACT FOR THE SUPPLY OF DRUGS AND DRUGGISTS' SUNDRIES.

TENDERS are invited for the supply of Drugs and Druggists' Sundries to the Isolation Hospital, Dog Lane, Willesden, for the year ending March 31, 1914.

Printed forms of tender, with full particulars, can be obtained on application from the undersigned at the Municipal Offices, Dyne Road, Kilburn, on and after Monday next, December 16, 1912.

Tenders will be required to quote the discount they are prepared to allow off the market monthly list of current prices.

Tenders, to be endorsed "Tender for Drugs, etc.," must be delivered at the Offices of the Council before 4 o'clock on Tuesday, January 14, 1913.

The Council do not bind themselves to accept the lowest or any tender.

By Order,

STANLEY W. BALL, Clerk of the Council.
Municipal Offices, Dyne Road, Kilburn, N.W.,
December 13, 1912.

SALES BY TENDER.

TO CHEMISTS, DRUGGISTS, AND OTHERS.

SALE BY TENDER. *Re* H. O. DRUG CO., LTD., in Liquidation.

MESSRS. MOORE, PARTRIDGE & CO. are instructed to offer for SALE BY TENDER, in several lots, the Stock-in-Trade of a Chemist and Druggist, at 64 New Road, Battersea, and 78 Upper Tulse Hill, S.W. The stock comprises loose Drugs, Patent and Proprietary Medicines, Soaps and Perfumery, Cameras and Photographic Materials, the estimated cost price of the whole being upwards of £250.

The Stock will be on view on the premises as above until December 17, between the hours of 2.30 and 4.30, excepting Saturday.

Tenders will be opened on December 18, at 3 o'clock, at the Offices of Moore, Partridge & Co., Chartered Accountants, 2 Gresham Buildings, London, E.C., from whom forms of tender and particulars may be obtained on application.

SALES BY AUCTION.

Re HY. MOTSON, BENTLEY, DONCASTER, DRUGGIST AND OPTICIAN.

By Order of the Trustee under a Deed of Assignment.

J. D. BUTLER & SON, instructed by A. H. Brock, Esq., Trustee in the above estate, will SELL by AUCTION, at their Mart, Nether Hall Road, Doncaster, on MONDAY and TUESDAY, December 16 and 17, the whole of the Stock of Drugs, Patent Medicines, Sundries, Optical Goods, Bottles, Shopfittings, including Southall's Wall-case with bevelled-glass front, Dispensing-screen, Shelving, Show-case, Desk, Cash Till, Counter, 7 ft. 6 in. Sale each day at 2 o'clock.

AGENCIES.

INDIA, Ceylon, Egypt, and the Mediterranean.—Successful travelling Representative, already representing leading houses, is open for additional Agencies of repute and non-clashing interests; terms, share of expenses and commission; all principal business centres worked; Hospitals, Doctors, Chemists, and leading Stores; no Drug house need apply. "Temporibus" (135/28), Office of this Paper.

GENTLEMAN leaving for India and the East for two of the leading Sheffield houses on December 24, would like to Represent good Drug and Sundries house. Apply, "M. A. A.," c/o Mason, Maclaren & Co., 26/27 Bush Lane, E.C.

I WANT the Agency of Chemical Manufacturing Works. Gustav Parmentier, Frankfurt-on-Main.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

RESULTS	
OF ADVERTISING IN THIS SUPPLEMENT	
LAST WEEK DEC 7 1912	
NATURE OF ADVT	REPLIES
UNQUAL. MANAGER 50	
" " (BRANCH) 46	
LADY DISPENSER 37	
QUAL. MANAGER 25	
UNQUAL. ASSISTT 25	
REPRESENTATIVE 24	



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETAIL.

BIRMINGHAM.—For December 30 or thereabouts, Junior wanted; Counter, Dispensing, Stock; passed Preliminary; hours 8.30 to 7.30; no Sunday duty; outdoors; wages to commence 27s. 6d.; photo please. Apply, Mr. Wakefield, Bellamy & Wakefield, M.P.S., Pharmaceutical Chemists and Pharmacists, Easy Row, Birmingham.

BIRMINGHAM. — Qualified Manager wanted for Quick Retail business; references from last 2 employers. Ago and full particulars to Lloyd, Chemist and Optician, 323 Coventry Road, Birmingham.

BOLTON.—Wanted, a qualified elderly man for Retail business; could live on the premises. State full particulars, salary expected, age, and references, 40/22, Office of this Paper.

BRADFORD.—Wanted, young, thoroughly up-to-date, energetic qualified Manager; must be really capable and able to build up a big business; salary starting £180. State fully previous experience and send photograph, 154/59, Office of this Paper.

BRIGHTON.—Dispenser (Apothecaries' Hall).—Wanted, immediately, a resident Lady Dispenser; average time of duty 3 hours daily; salary £15 per annum. Apply, stating age and qualifications, with not more than 3 testimonials, to Secretary, Throat and Ear Hospital, Church Street, Queen's Road, Brighton.

BURSLER.—Good Junior, about 25 years, for Country Wholesale and Retail; outdoors; single; short hours; must be good Salesman; state age, height, and experience, with references and salary required; permanency for good man; 4 others kept. Thos. Leicester, Chemist, Burslem.

CARMARTHENSHIRE.—Wanted immediately, an elderly qualified Chemist; principally wanted for qualification; duties are exceedingly light. Apply, with references and stating salary required, to Francis Davies, The Drug Stores, Tumble, Carmarthenshire.

CHEL TENHAM.—Junior Assistant or Improver wanted (indoors, one only kept), for Light Retail, Dispensing, and Photographic business; no Extracting required. In reply please state age, height, experience, reference, and salary required, with photo (if convenient), to Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

GLAMORGANSHIRE.—Qualified Managing Assistant (married) required, to take charge of a small Retail business in an industrial district, with view to succession; must be steady and of sober habits; good living accommodation. State age, experience, references, salary, and when disengaged, to T. Dryden, Pharmacist, Landore, Swansea.

HUDDERSFIELD.—Wanted, an unqualified Assistant; outdoors. State age, height, salary required, and particulars of last two situations, with duration of each, to Huddersfield Industrial Society, Ltd., Buxton Road, Huddersfield.

KENSINGTON.—Wanted, a gentlemanly reliable outdoor Assistant (unqualified), with Dispensing and Photographic experience; Dental knowledge an advantage. Application (in first instance by letter), stating age, height, references, and salary required, enclose photo (returnable), 40/14, Office of this Paper.

LONDON, W.C.—Smart, gentlemanly Junior, with good-class experience; must be neat and strictly accurate Dispenser and capable all round. Apply, with full particulars as to experience, age, height, etc., stating salary expected, and enclosing photo (which shall be returned), Cofman's Pharmacy, 6 Bloomsbury Street, W.C.

LONDON.—Wanted, in a large Retail establishment, a Lady Assistant, about 25 years of age, competent to measure for Elastic Stockings, Belts, Trusses, etc. Write, stating age and experience, to "Chemist," 1064, Sell's Offices, Fleet Street, London.

LONDON, W.—Qualified Assistant with good experience required. Applications, by letter only in first instance, J. R. Walker, 36 New Cavendish Street, W.

LONDON, W.—An experienced Assistant as Senior, accustomed to good-class Dispensing; indoors. W. McEwen, 17 Craven Road.

LONDON.—Wanted, qualified Manager (outdoors) for Branch, end of January; young man not objected to; salary and commission. Apply, "Chemist" (41/7), Office of this Paper.

LONDON, W.—Wanted, smart Assistant, speaking French; outdoors. Full particulars, with photo if possible, to 39/12, Office of this Paper.

LONDON, S.W.—Wanted, competent, gentlemanly Assistant (outdoors, 2 kept), accustomed to good-class Retail and Dispensing with Photographic. State age, height, salary, and particulars of experience, to 41/28, Office of this Paper.

LONDON, S.W.—Competent Assistant, with good Counter experience; 3 kept; hours 8.30 to 9, Saturdays 9.30, Sunday duty every third, 6 to 9 p.m. Full particulars in first instance to E. F. Strickland, 28 The Broadway, Ealing, W.

LONDON, N.W.—January 1, qualified Assistant wanted for Dispensing business. P. Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W.

LONDON.—Immediately, intelligent, unqualified Junior, about 25, for new Branch; Store trade; must be good Stockkeeper and Counterman, of reliable business habits and capable of working independently. Full particulars, experience, etc., S. Briggs, 31 Broadway, Crouch End, London, N.

MALVERN WELLS.—Wanted, a young Junior or Apprentice who has served part time for good Country Dispensing and Family business; comfortable home; short hours and time for study. Apply, with full particulars, age, salary required, and enclose photo (to be returned), to Clark, Chemist, Malvern Wells.

MANCHESTER District.—Experienced qualified Manager for Branch business; knowledge of Optics. Apply, "H. T.," c/o J. Woolley, Sons & Co., Ltd., Manchester.

MIDDLESBROUGH.—Wanted, a smart man (unqualified) as Assistant; accustomed to Oils and Colours preferred; send particulars of age, experience, and salary required; no Sunday duty. Address, R. Sowerby & Son, 5 North Street, Middlesbrough.

NEAR Swansea.—Wanted at once, Assistant for Light Country Prescribing business; outdoors; no Sunday duty. Apply to 38/8, Office of this Paper.

OLDHAM.—Qualified Assistant for brisk Retail trade; must be quick and reliable, a good Salesman. State age, height, experience, references, and salary required, enclosing photo, 40/5, Office of this Paper.

OXFORD.—Wanted, a Lady Pharmacist, fully qualified, with Retail experience. State full particulars of age, height, experience, and salary required (outdoors), enclosing carte, to Cousins, Thomas & Sons, Chemists, 63 Banbury Road, Oxford.

ASSISTANT, chiefly for Dispensing; must be accustomed to the best class of trade and write a good hand. Apply, W. Ive, 115 Gloucester Road, South Kensington, S.W.

ASSISTANT, qualified, wanted at once for Mixed Retail and Dispensing business in Lancashire town; abstainer preferred; must have satisfactory references; state age, salary and experience; permanency. 41/24, Office of this Paper.

AT once, qualified middle-aged or elderly Assistant; Mixed Dispensing; recently registered Drug Stores; manufacturing town, Midlands. State particulars, "Rhet" (41/10), Office of this Paper.

BALKWILL & CO. require the services of a qualified Assistant on January 1, 1913. Apply, with photo, stating full particulars as to age, height, experience, and salary required, to 106 Old Town Street, Plymouth.

ENERGETIC Manager required for large Cash Drug Stores in Belfast; must have modern and varied Cash Drug Store experience; liberal salary and commission to competent and suitable man; personal character must bear strictest investigation. Apply, by letter, to Messrs. John Courtney & Co., Accountants and Auditors, 61 Royal Avenue, Belfast.

GENTLEMANLY Assistant, about first week in January, qualified; well up in Dispensing, Photography, and General Retail. Apply, stating age, height, references, and salary required (outdoors), to E. Haward, 45 Arundel Road, Littlehampton.

IMPROVER or Junior wanted; indoors; Welsh-speaking preferred. State salary, age, height, references, and send photo, Gwillim, Chemist, Brecon.

IMPROVER, unqualified, wanted; steady, obliging, and reliable; outdoors; South Wales. Apply, "X. Y. Z." (39/23), Office of this Paper.

JUNIOR Assistant wanted (indoors), January 1, with knowledge of Photography. State full particulars in first letter, references, salary required, age, photo, and experience, Williams & Smith, Chemists, Horsham.

JUNIOR, ago about 21, used to Dispensing; outdoors; suit one reading for Minor; part-time or easy hours. Devereux, Wood Street, Walthamstow.

JUNIOR Assistant required for modern Cash business, age about 25; must be a good Counterman and Dispenser and be able to produce undeniable references. State whether married and salary required, 308/26, Office of this Paper.

JUNIOR Assistant or Improver wanted almost immediately for good-class market town business in Yorkshire; outdoors; short hours; good Window-dresser and knowledge of Photography essential. State age and salary required, photo if possible (personal application preferred if convenient), to G. F. Hird, Chemist, Northallerton.

JUNIOR, about 22, required first week in January; Photography; outdoors. Full particulars in first letter to Green & Co., Chemists, Swindon.

JUNIOR, capable (outdoors), in Birmingham; wages 30s.; hours 9 A.M. to 9 P.M., Saturday 10; Wednesday half-day holiday; occasional Sunday duty. State experience and when at liberty, and enclose photo, "X. Y. Z." (40/36), Office of this Paper.

JUNIOR required immediately; outdoors; good Dispenser and Counterman; easy hours; half-day weekly; personal application preferred. All particulars to Pharmacy Waldorf, Aldwyen, W.C.

JUNIOR for January 1 in high-class Dispensing business; must be of good appearance, careful and conscientious worker; two Assistants kept; outdoors. Apply, stating salary required and usual particulars, enclosing photo, Sharman, Northwood, Middlesex.

LADY Dispenser.—Required, several Lady Dispensers, who have been in the employ of Doctors during the past 3 or 4 years. State age, experience, salary required, and references, to 360/20, Office of this Paper.

LOCUM wanted, December 23 to 30. State terms and references to Willis, Pharmacist, Lyndhurst.

MANAGER, age 30-35, for high-class business in best part of London; outdoors; must be first-rate Counterman. Apply to "Quassia," c/o S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

NATIONAL Insurance Dispensing.—A Limited Company in Birmingham, in an exceptional position for obtaining a large share of this work, is desirous of corresponding with a qualified person on a part salary and commission or similar mutual arrangement. "National" (40/26), Office of this Paper.

QUALIFIED Manager, with West-End experience, for City Branch; outdoors; young man preferred; hours 9.30 to 8; no Sunday duty. Apply, stating experience, age, salary required, and all particulars, 38/21, Office of this Paper.

QUALIFIED Assistant for Branch in Colliery district early January; Welsh-speaking; abstainer; permanency; good references. State age, salary, enclose photo, to "Cymro" (38/22), Office of this Paper.

QUALIFIED Assistant (outdoors) soon, for North Stafford. Particulars, age, etc., 41/17, Office of this Paper.

QUALIFIED Assistant as Branch Manager, accustomed to good-class Retail and Dispensing and qualified in Optics. Kindly state full particulars of experience, age, height, salary required (house provided), whether married or single, and enclose photo, to D. T. Evans, Farningham Lodge, Margate.

RELIABLE Assistant, single, with good Counter and Dispensing experience; age about 25; must be of good address and have excellent references. Apply, stating age, height, salary required, and when disengaged, with photo, to T. Furness & Son, The Pharmacy, Chesterfield. Applications not answered in 3 days declined.

SEASIDE, for Dispensing and Light Retail.—Wanted early in January, a conscientious, gentlemanly Assistant, with highest references as to character and ability; must have had Dispensing experience; comfortable home; reasonable hours. Please state age, height, and salary required, also names of referees, and enclose photo, to "Isle of Wight" (41/21), Office of this Paper.

SMART unqualified man required to take charge of Branch; one who has been with a Doctor during the last 3 or 4 years and had previous experience with a Retail Chemist preferred; must be married and of exemplary character. 38/206, Office of this Paper.

SMART unqualified Assistant wanted (indoors) to take charge small Branch; business is Mixed, and there is ample time during day for study. Send fullest particulars in first letter, 186 High Street, Bloxwich.

SMART Junior, qualified or unqualified, wanted at once for Branch, capable of taking charge; outdoors. Apply, Secretary, Noble's Drug Stores, Ltd., 2 Well Street, Cable Street, E.

UNQUALIFIED Manager required for Drug Store already doing well and offering scope for increased business; must be married, a good Counterman, and be able to produce undeniable references. State age and when at liberty, 38/260, Office of this Paper.

UNQUALIFIED Assistant wanted after Christmas; indoors; 3 kept. Apply, giving full particulars and enclosing photo, to Gregory & Wrenn, Chemists, Taunton.

UNQUALIFIED Junior; one having had some experience in first-class Dispensing business. Apply to A. Wigginton, 137 Sloane Street, S.W.

UNQUALIFIED Assistant wanted; quick and obliging Counterman and good Window-dresser and Stockkeeper; age about 30; knowledge of country and Agricultural trade desirable; short hours; no Sunday duty. State age, height, references, and salary required in first letter, 39/40, Office of this Paper.

WANTED early in January, a good Junior Assistant. One accustomed to a first-class Dispensing business; 3 others kept. Apply, stating age, salary, with references, to F. Wimbush, Pharmaceutical Chemist, 16 Devonshire Road, Bexhill-on-Sea.

WANTED, elderly registered Chemist about three hours daily; suit retired one; outdoors; state salary required; also Lady Pharmacist. Apply, The Pharmacy, High Street, Wednesfield, Wolverhampton.

WANTED, unqualified Assistant (indoors) for Dispensing and Light Retail business; duty between 3; comfortable home. Hornblow & Son, Chemists, Worcester.

WANTED after Christmas, an Assistant, about 23 to 25 (qualified), for Dispensing business. State age, height, salary (indoors), when disengaged, experience, if Dispensing and Photography, names of two last employers and time with each, 39/22, Office of this Paper.

WANTED, January 1, reliable unqualified Assistant, 25 to 30, for a good-class Agricultural business; outdoors; easy hours; part travel; permanency to suitable man; personal interview. Exors. Jevons, Market Rasen.

YOUNG qualified Assistant, with good Dispensing experience, required immediately. Courtenay, 2 Queen's Terrace, St. John's Wood.

WHOLESALE.

HIGHLY Profitable Side-line.—A well-known firm of British Electric-lamp Manufacturers desire to enter into a confidential arrangement with Travellers already calling upon Chemists, Druggists, Oil and Colour Men, to sell their Tungsten Lamps; liberal commission to suitable men. Write, in strict confidence, giving particulars of present business and ground covered, to "Lamps," 75 Deodar Road, Putney, S.W.

INVOICE Clerk wanted for Wholesale house; one with knowledge of Surgical Instruments preferred. Apply, stating age, experience, and salary required, to 36/23, Office of this Paper.

QUALIFIED Chemist, age about 24, well educated and of good appearance and address, wanted by a London firm of Wholesale Druggists; the position, which is on the indoor staff, will be a progressive one and afford an exceptional opportunity for advancement to a man possessing energy and ability. Apply, in the first instance by letter, giving full particulars, such as age, previous experience, salary required, etc., etc., to 155/35, Office of this Paper.

REQUIRED, by well-known firm, a young Traveller who has had some experience and connection, for Yorkshire, Durham, and Northumberland. "Menthol" (154/73), Office of this Paper.

TRAVELLERS wanted, with good connection, to push sale of a new Proprietary article; good commission. Apply, by letter only, to "X. Y. Z.," 185 Walworth Road, London, S.E.

WANTED, by old-established Manufacturers of Proprietary Articles, young man, fully qualified; Analysis, Dispensing. Apply, giving full particulars, Box 20, Gordon & Gotch, 15 St. Bride Street, E.C.

WET Counter.—Experienced man wanted; permanency for a good man. Apply, with full particulars, salary, etc., to Brook, Parker & Co., Ltd., Garnett Street, Bradford.

WET Room.—Two experienced Counter hands, age 18 and 22; must be smart; full particulars. Apply, "London" (43/37), Office of this Paper.

WHOLESALE Druggists and Drysalters require experienced Buyer and General Manager, age 35 to 40; previous experience in both Wholesale and Retail department essential; good salary and commission to first-class man. Apply, in strict confidence, "C. 11," c/o W. H. Smith & Son, Advertising Agents, Blackfriars, Manchester.

WHOLESALE Druggists' Town Counter.—Wanted, for South Africa, smart man to take charge of Wholesale Town Counter; unmarried; age about 30 years; salary £168 first year, £180 second year, £192 third year; outdoors; passage paid out. Apply, by letter only, "T. C.," 12 Lafone Street, London, S.E.

WORKING Chemist (qualified) wanted for Manufacturing business. State age, all particulars, and salary asked, to "Z. Y. X." (40/39), Office of this Paper.

SITUATIONS OPEN

(Colonial, Indian, and Foreign).

3s. 8d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

BIARRITZ. — Assistant wanted. For full particulars apply Stevenson, 48 Regent Street, W.

CAPE COLONY. — Junior qualified Assistant required for a Coast town good-class business, under 26 years of age; unmarried; salary (outdoors) £15 per month first year, £16 second, £17 third; 3 years' agreement; second-class passage. Apply, by letter only, "L.," 14 Lafone Street, London, S.E.

INDIA.—Qualified Assistant (Minor) wanted at once for one of the best houses in Calcutta; must be single, age under 25, and have had first-class experience; character must bear strict investigation; 4 years' agreement; passage paid both ways; salary first year Rs. 225, second Rs. 250, third Rs. 275, and fourth Rs. 300 monthly. Apply, giving full particulars of experience, to 6/4, Office of this Paper.

NICE, Menton, Cannes, Genua, or Firenze. — Qualified Swiss from January 1 next till April 15; salary 250 fcs. Send particulars, references, and photo (to be returned), to the Pharmacie Internationale, Gd. Hôtel, Nice.

TRANSVAAL.—Young qualified Assistant, unmarried, wanted for a high-class Pharmacy; must have had very best experience, preferably West-End of London; salary £19 per month first year, £20 second, £21 third; outdoors; second-class passage paid out; 3 years' agreement. Apply, by letter only, "V.," 73 Newlands Park, Sydenham, S.E.

ASSISTANT.—Good opportunity for a qualified Junior in first-class Cape Town business; must be single, a neat and careful Dispenser, and produce best references; 3 years' agreement; salary £15, £16, and £17 per month for 3 years; second-class passage paid out and sleeping accommodation provided. Apply, with photo and all particulars, to "Cape" (132/380), Office of this Paper.

FOR India.—Young Pharmacist wanted by Pharmaceutical firm of high standing to interview Medical Men in India; knowledge of German desirable. State age, experience, salary required, etc., to 16/12, Office of this Paper.

MESSRS. A. S. WATSON & CO., LTD. of Hong Kong and Treaty Ports of China, will have vacancies in the early part of next year for one or two qualified Assistants; they must have had first-class Dispensing experience and not be more than 27 years old, and not married; liberal terms for the right men. Address, "Export," 64 Crutched Friars, E.C.

QUALIFIED Assistant wanted for India; married preferred; age 26 to 30; total abstainer; fully competent to do his own Compounding when necessary; 4 years' agreement; salary Rupees 250, 275, 300, 325; passage paid out. Apply, giving full particulars, to 155/21, Office of this Paper.

WANTED, Straits Settlements, Assistant, qualified, about 23 to 26, with good knowledge of Photography and Optics and good all-round experience; 4 years' agreement; salary £245, advancing to £335; free rooms and medical attendance; passage paid out and home. Apply, with full particulars, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate, London.

WHOLESALE Druggists' Town Counter.—Wanted, for South Africa, smart man to take charge of Wholesale Town Counter; unmarried; age about 30 years; salary £168 first year, £180 second year, £192 third year (outdoors); passage paid out. Apply, by letter only, "T. C.," 12 Lafone Street, London, S.E.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this office and forwarded to the Advertiser for an Additional charge of 6d.

[HOME.]

RETAIL.

AS Locum or permanent; exceptionally recommended; experienced, reliable. "Disengaged," 288 Elgin Avenue, Maida Vale.

ASSISTANT; 22½; disengaged January 8; 7½ years' good experience; excellent references; time for study preferred. Davison, 32 Manor Road, Rugby.

ASSISTANT; thoroughly experienced; trustworthy; outdoors; permanency; disengaged. "S.," Ingledene, Cher, Minehead.

ASSISTANT desires change; tall, smart, energetic, and obliging; town and coast experience; disengaged. Photo, etc., from "H. M. J.," 6 Salisbury Terrace, Teignmouth.

ASSISTANT; shortly disengaged; tall, experienced; Extractor; good references; 30. "Abstainer," 27 Wilton Avenue, Southampton.

ASSISTANT; 40; married; smart Counterman and Window-dresser, Bookkeeper; moderate Dispensing experience; good references. "Oxon" (39/37), Office of this Paper.

ASSISTANT; tall; 8 years' high-grade experience, Agricultural, Photographic, Dispensing, in country city and spa; capable salesman; West Riding preferred. "Aerogen" (41/29), Office of this Paper.

AT once, Branch Manager or Assistant, unqualified; energetic; 17 years' experience. "Immediate," 3½ Salt Mill, Saltash.

CAPABLE, reliable man; permanency town, Locum town or country; wide experience; trustworthy references; good Prescriber, Dispenser. Forster, 5 Coleridge Road, Finsbury Park, N.

CAPABLE, unqualified Assistant (27) shortly requires berth; where one only kept preferred; first-class all-round experience. "Eucalyptus" (40/40), Office of this Paper.

COMPETENT qualified Locum; 39; abstainer; disengaged Tuesday. "E.," 17 Calverley Road, Tunbridge Wells.

DISENGAGED; Part-time or Locum; unqualified; Manager or otherwise. "Statim," 10 Mayall Road, Brixton, S.W.

DISPENSER or Assistant; unqualified; 24; excellent references; disengaged. A. Murray, Murton Street, Sunderland.

DISPENSER seeks permanency; country or seaside; moderate salary. 148 Ashmore Road, Paddington.

EVENINGS 6.30 p.m., Saturdays 3 p.m.; Dispensing and all-round experience. E. F. Tilson, 5 King's Avenue, Hounslow Town.

EVENING help; West-End and Suburban experience in all branches; well recommended. "Aloin," 24 Glenholme Road, Hammersmith.

FRENCH Pharmacist's Assistant (29), good appearance, with 12 years' practical experience (three years in Paris), would like situation as Assistant in London Pharmacy; highest references. Touniesoux, 1 rue des Martyrs, Chateauroux (Indre), France.

J. PYE, 62 Lynette Avenue, Clapham Common, disengaged; qualified.

J UNIOR in a good-class Retail and Dispensing; tall. Thomas, 63 Banbury Road, Oxford.

J UNIOR (19), 41 years' experience, requires situation; Lancashire preferably; disengaged end of year. Parker, 52 Church Parade, Oakengates, Salop.

L ADY Dispenser; qualified; thoroughly experienced; Tests, Bookkeeping, etc.; disengaged January 1. 40/23, Office of this Paper.

L OCUM; qualified; disengaged; good experience; well recommended. "Rhei," 22 Thorpebank Road, Shepherd's Bush.

L OCUM or temporary; qualified; 28; disengaged. "Chemist," 67 Pennard Road, Shepherd's Bush, W.

M.P.S. (26), 5 ft. 9 in., first-class experience, abstainer, desires appointment in Manchester district; reasonable hours; moderate salary. Reply, 41/23, Office of this Paper.

M ANAGER; qualified; married; reside premises or outdoors; total abstainer; thoroughly competent all branches; permanency desired, with or without view to succession; age 39; provincial town preferred; disengaged at any time. 4/23, Office of this Paper.

M ANAGER or Senior; 30; view to succession; good-class Retail and Dispensing. Apply, 45/29, Office of this Paper.

M ANAGER; exceptionally well up at Counter and Prescribing; highest references; unqualified. "W.," 11 City Road, E.C.

N ORTHERN COUNTIES. — Qualified, energetic, experienced Locum or Manager. Gray, Fernville Street, Sunderland.

P ERMANENCY sought, England (London preferred), by Englishman; 27; 12 years' first-class experience (4 years Paris and Riviera); just terminated Paris summer season; fluent French; highest references. Allen, 10 Chaussée d'Autin, Paris.

P HARMACIST, cognisant of best markets, desires first-class Locum work, Retail or Wholesale; exceptional experience. "Ability," Barton House, Beeston, Notts.

P HARMACIST; 23; tall; 8 years' experience, Retail, Dispensing, and Photography; Manager or Assistant; disengaged December 30. Sandbach, "The Raven," Llandudno.

P HARMACIST, retired, age 40, seeks light situation, Liverpool or district; good experience and Prescriber; moderate salary for easy berth; disengaged now. 41/19, Office of this Paper.

Q UALIFIED Manager; single; excellent references; permanency desired. "Pharmacist," 146 Berners Street, Leicester.

Q UALIFIED; Manager or Senior; good class; experienced. "L.," 84 Huntley Street, W.C.

Q UALIFIED Manager; 27 years' experience; disengaged. Hampton, 24 Rochester Road, Southsea.

Q UALIFIED; 28; disengaged; first-class experience. "Chemist," 67 Pennard Road, Shepherd's Bush, W.

Q UALIFIED; elderly; experienced; Manage, Assist; temporary, permanency; moderate terms; London. "L.," 1a Powis Terrace, W.

Q UALIFIED; age 33; disengaged after Christmas. Long, 37 Somerville Road, New Cross Gate, S.E.

Q UALIFIED; Manager or otherwise; 38; best experience and references. "W. S.," 163 Ewlyn Road, Tooting.

Q UALIFIED; 28; Manager or Senior; good experience; highest references. "Chemist," 10 Ashley Villas, Warwick Road, South Kensington.

Q UALIFIED (34) as Manager in good-class business; with view to succession or partnership. J. Whitaker, 14 Hardman Street, Liverpool.

Q UALIFIED; Manager or responsible position in good-class business; 25; West-End experience; good appearance; disengaged; London district. Gadsdon, Oakleigh Park, London, W.

Q UALIFIED; good Counterman and Dispenser; energetic and thoroughly experienced. "Velox," 3 Yattendon Road, Horley.

Q UALIFIED; day, half-day, evening; permanency with easy hours. 24 Wandsworth Bridge Road, Fulham, S.W.

Q UALIFIED; 34; disengaged Saturday evenings; good Counterman. "Argon," 100a Bellenden Road, Peckham.

Q UALIFIED (24), Family and Mixed business experience, requires post Yorks or near. 41/30, Office of this Paper.

Q UALIFIED; middle-aged; no encumbrance; salary nominal. 40/10, Office of this Paper.

Q UALIFIED, young, abstainer, knowledge of Optics, disengaged, would like situation in or near London. For particulars apply 39/33, Office of this Paper.

Q UALIFIED Manager; first-class Dispensing and General experience; 39; married; highest references. "Bismuth" (39/19), Office of this Paper.

Q UALIFIED Manager; 35; married; 20 years' high-class experience; London preferred; abstainer; would take Locum duty. 39/9, Office of this Paper.

Q UALIFIED; 27; good experience and references. Jones, 374 Blackburn Road, Acerington.

R USSIAN qualified Chemist, 10 years' experience, requires situation, Chemist or Dispenser; town or country; knows German well, and a little English; small salary; indoors. George, 63 Commercial Street, E.

S ENIOR; used to Management; thoroughly capable, trustworthy; outdoors. "Chemicus," 8 Harcourt Road, West Ham, E.

S TUDENT (25) desires part-time, London, after Christmas (3 evenings weekly required off for classes); good references. White, 60 George Street, Ryde.

25/- weekly; Junior now disengaged. Mills, Wood Green Road, Waltham Abbey.

U NQUALIFIED; 38; Store experience; Counter, Prescriber; able to Extract, take Dental Impressions, and work Vulcanite; accustomed to Manage Branch. 36/27, Office of this Paper.

U NQUALIFIED; age 32; Manager or Assistant; all-round experience; Locum or permanency; disengaged. "Statim," 90 Wells Street, Camberwell, London, S.E.

U NQUALIFIED; Locum or Assistant; all-round experience; 15 years last situation; abstainer. "Arnolds," 8 Burnage Range, Levenshulme.

U NQUALIFIED; Manager; reliable, energetic, life abstainer; Store and private all-round experience; good references; moderate salary. "Chemist," 1 Egerton Grove, Stretford Road, Manchester.

U NQUALIFIED; Senior or Branch; competent and energetic; married; 36; Prescriber, accurate Dispenser, Photography; good salesman, up to date; not afraid of work; disengaged; good varied experience. "Rhei," 37 Alma Street, Taunton, Somerset.

U NQUALIFIED (22), tall, good appearance, desires position (home or abroad); experience in all branches of Retail and Wholesale. Briggs, Hawthorn Street, Burslem.

U NQUALIFIED; Assistant, Dispenser, or Branch Manager; thoroughly experienced; good Counterman, Prescriber, and Dispenser; Photography, Optics; highest references; obliging; disengaged January; will make services valuable. "The Advertiser," 12 Heaton Street, Brampton, Chesterfield.

UNQUALIFIED, experienced Assistant desires berth in London. G. L. Evans, Medical Hall, Cardigan.

UNQUALIFIED; 32; married; excellent and varied experience in Counter, Dispensing, Window-dressing, and Photography, West End and provincial; high-class Store preferred; well recommended; sober and thoroughly reliable; used to entire charge. "J. R.," 136 Prince of Wales Road, London, N.W.

UNQUALIFIED; abstainer; 29; 12 years' experience; excellent references; Photography; in- or out-doors; disengaged January 1. "Aspirin," 15 East Street, Taunton.

UNQUALIFIED; Assistant, Dispenser, of suitable Branch; experienced and trustworthy; exceptional references; middle-aged; married; country only. "Rhei," 15 Lincoln Road, South Norwood.

UNQUALIFIED (23) desires situation in large town; outdoors; good references; total abstainer; Midlands preferred. Apply, 40/1, Office of this Paper.

UNQUALIFIED (28), competent all-round Assistant, seeks post; abstainer; excellent references; Photography, Dispensing. "Nux" (41/1), Office of this Paper.

UNQUALIFIED (26), West-End experience, seeks berth where prospects are good; excellent references. "Medinal," Pharmacy Waldorf, Aldwych.

UNQUALIFIED, reliable Assistant or Manager; experienced Dispenser and Counterman; outdoors; disengaged. "London" (43/3), Office of this Paper.

WOMAN Pharmacist as Teacher and Demonstrator; excellent results with "Hall" students and beginners; Secretarial duties also undertaken. "Z." (41/12), Office of this Paper.

WANTED, situation by young lady in good-class Dispensing business; 7 years' experience; excellent testimonials. Apply, Miss J. Fallowfield, Park Avenue, Windermere.

HOUSEKEEPER; Chemist's widow; middle-aged; very domesticated, economical, cheerful, and musical; now disengaged. "M. T.," 99 Crouch Hill, N.

WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

AMBITIOUS Assistant, with splendid varied experience, seeks responsible post in Wholesale; pushing salesman; Partnership entertained; Yorks preferred. Confidential letters to "Tannalbin" (41/290), Office of this Paper.

PERFUMERY, Essential Oils.—Advertiser open to Represent first-class house; many years with good house; good personal live connection in London, Scotland, Northern, Eastern, and South-Western Counties, and can influence business; highest references. "Neroli" (43/18), Office of this Paper.

QUALIFIED Chemist (28), with high-class Retail, Wholesale, and Office experience, desires position with Wholesale house as Representative or in Office. 38/28, Office of this Paper.

STOCKKEEPER, etc.; Drugs, Sundries (English and foreign), Buying and Costs; 16 years' experience. 40/7, Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, pro paid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

CONTINENTAL.—Qualified Englishman desires Season engagement or permanency. J. P. do Buriatte, 67 Rue du Caire, Ostend, Belgium.

NICE, Menton, Cannes, Genoa, or Firenze. — Qualified Swiss Chemist (25) desires Season engagement; first-class experience; highest credentials. A. Bührer, Pharmacie de la Cour, 288 Avenue Louise, Bruxelles.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—150 Aerators Preferred Ordinary, 18s. 9d., dividend last year 8 per cent.; 35 Allenburys' "B" 6 per cent. Preference, 25s. 3d.; 20 Bengers Ordinary, 36s. 11d.; 5 Evans Lescher Preference, 103s.; 500 Barry's, 9s.; 20 Ilford Ordinary, 14s. 11d.; 360 Salt Union 44 Shares, 13s. 9d.; 100 G. B. Kent Preference, 10s. e.d.; 200 Bovril Preferred, 8s. 6d. **WANTED** (subject).—200 Camwal Preference, 4s. e.d.; 3 Debentures, 33½; 25 Virol, 31s. 3d.; 200 A. J. White Preference, 8s. 2d.; Idris Debentures, 58.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London and County and Westminster.

INCREASE YOUR BUSINESS

in my way. I talk to the people passing your window and convince them that you are an expert in Drugs, Dispensing, Cough Remedies, Tooth-powders, Perfumes, whatever you choose. Nothing tricky, vulgar, or derogatory. Suits all Chemists, good-class Chemists best, unqualified men not at all. Bromley, Chemist, Whetstone, Middlesex.

TO CHEMISTS AND DRUGGISTS.—Real Bargains in Second-hand Fittings.—12-ft. Range of Wall Fittings, comprising Drawers, Lockers, and Shelving, £11; handsome Dispensing-screen, 7 ft. long, with Mirror Centre, £7; 6-ft. ditto, £4 15s.; 4-ft. Range of Counter Drawers, 42s.; Silent Salesman for Counter, 3 ft. high, 75s.; 3-ft. Set of Glass Shelves for Window, with Bars and Brackets, 30s.; 4-ft. ditto, 42s.; 5-ft. ditto, 55s.; 144 Gold-labelled Shop-rounds, £5 15s. R. TOMLINSON & SONS, Headquarters for Complete Shop Fittings, Bond Street, Birmingham.

SHOPS ACT, 1912.

Shop Inspectors are looking sharply at Chemists' shops. Medical and Surgical Appliances may be sold during closed hours if the statutory notice is exhibited. Two cards are necessary, and will be sent post free on receipt of eight penny stamps, The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

CHEMISTS' SHOPFITTINGS (second-hand).—Ranges Mahogany Drawers, Bevelled Edged, Glass Labels, Cut-glass Knobs, Shelving, Lockers; Mahogany Dispensing-screens; Glass-fronted Counters; Piano-fronted Wall-case, Mirror Centre; Bent Front Counter-cases; Desks; complete Shop-rounds, Window Backs, Glass Shelves, etc.; extensive stock; give-away prices; high-class Fittings, bang up to date; Estimates. D. MATTHEWS & SON, 14 & 16 Manchester Street, Liverpool.

CHEMISTS' Shopfittings.—Window Enclosures, Showcases, Silent Salesman, Dispensing Screens, Wall-cases, Perfume-cases, Glass-front Serving Counters, Drug Drawers, Counter Drawers, second-hand, shop-soiled, at unbeaten prices; you can't do better; 30 years fitting Pharmacies. Send for free estimate, George Cook, The Working Shopfitter, 30 Buttesland Street, East Road (near Old Street Tube Station).

McQUEEN'S System of Accounts for Chemists; works out gross and net profits, balance sheet, and income-tax return with guaranteed certainty; a work well known and considered indispensable by progressive Chemists (Tenth and improved Edition). Full particulars and testimonials, post free, McQueen & Co., Moat Road, E. Leicester.

CHEMISTS' SHOPFITTINGS, very cheap.—12-ft. Mahogany and Plate-glass Serving Counter, £9; 6-ft. very handsome Dispensing-screen, Mirror Centre, and Sponge-case under, £13 10s.; 4 5-ft. Mahogany and Glass Wall-cases, £7 each; 6-ft. bent Plate-glass Counter-case, 90s.; Perfume-case and Desk, 55s.; quantity of other Fittings, Recess Bottles, Jars, etc. PHILIP JOSEPHS, 95 Old Street, Goswell Road, London, E.C.

"IS IT LIABLE TO MEDICINE STAMP DUTY"?

This question is easy to answer if you have at your desk one of the new C. & D. chart-cards showing grounds of liability and exemption. Sent post free for four penny stamps. The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exception-ally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

Dose Tables for Students of Pharmacy.

A TWENTY-FOUR page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY.

POISONS SCHEDULE, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 4d., post free, from THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

CHEMISTS' TICKETS!

F. MERTEN & CO. Advise all Chemists (before placing their orders) to write for Samples of their —
MOST SELECT, EFFECTIVE, & CHEAPEST WINDOW TICKETS OBTAINABLE; also a Specialty of theirs is the production of display Figure-Sketch Cards, portraying various ailments, etc.

Write at once—72 MARLBOROUGH RD., UPPER HOLLOWAY, LONDON, N., to obtain satisfaction.

The Chemists' (Approved) Friendly Society.

Recruits to the Drug trade should become Members of the Trade Society. It is the largest organisation of Assistants in the United Kingdom. Members acting as Recruiting Officers are benefiting themselves and the recruits they enlist.

All Insurance books now completed and returned to the Members.

William McCallum, Manager, C.F.S., 194 St. Vincent Street, Glasgow.

REMARKABLE BOOM IN TRADE!

The Daily Press—All large firms are entering on an extensive advertising campaign. Why not participate in this boom now? Let me help you to make this a record Xmas. Will send up-to-date Xmas scheme with window shows, and follow up displays to the New Year, including a copy of my December letter to my clients for 5/- Write for it at once. Pharmacists only supplied. Booklet explaining my methods post free.

BILLIARD ALLISON, Pharmacist & Business Specialist, RETFORD.

**JUST
TILL
XMAS
ONLY.**

I will help one Chemist (his income must be under £150) for one year without fee, and four more for practically out-of-pocket expenses. Give your reason why you should be helped free. All Chemists should get my free Booklet, and read my Diary adverts. on pages 104 and 493.

BERNARD SLACK, 9 King Street, WOLVERHAMPTON

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

WHAT offers?—2 14th edition, 2 12th edition, and 1 9th edition, Martindale's "Pharmacopoeia." "CHEMIST," 10 Dale End, Birmingham.

GREENISH'S "Materia Medica," 9s. 6d.; "Serum and Vaccine Therapy," Hewlett, 5s.; "Bacteriology," Hewlett, 5s. 6d.; "Art of Dispensing," C. & D., 3s. 6d.; latest editions; almost new; Lucas' "Pharmacy," '98; "Pharmacopoeia," '04; offers. ELLIOTT, 87 Senhouse Street, Maryport, Cumberland.

DRUGS AND CHEMICALS.

OFFER for 3 oz. otto roce. A. F. COLLIS, 11 Abbey Churchyard, Bath.

BUCHU leaves, unofficial; Barosma pulchilla, about 3 lb., 2s. 6d. lb.; 6 lb. Honduras sarsaparilla, 1s. 8d. lb. carriage paid BLSHER, Bloxwich.

OPTICAL AND PHOTOGRAPHIC.

74 MICROSCOPIO slides, 2s. doz., 10s. lot; approval, exchange. LINTIN, 170 Freedom Road, Sheffield.

SECOND-HAND Ross "Standard" microscope, 2A outfit, ¼ in. objective, and 2 eyepieces extra by same maker; also additional apparatus; substage condenser, iris, quantity of diaphragms and coloured stops for same; massive stand condenser, mechanical turntable, telescopic table lamp for incandescent gas; price £8 10s., or near offer. MARSHALL, Cheadle, Staffs.

MISCELLANEOUS.

OVERSTOCKED.—McDougall's dips; 8 5-lb. tins arsenic-sulphur; 18 ½ gal., 18 1 gal. tins liquid; 3 40-lb., 4 25-lb. buckets paste; Ireland; best offer. 35/39, Office of this Paper.

BAKER'S No. 3 patent powder mixer and sifter, as May, Roberts' list, with extra drawer; perfect condition; cost £5 2s. 6d.; will accept £3 5s. DAVIES, Chemist, Llanelly.

FOR sale, 42 1-lb. rolls (original bale) 45 per cent borie lint, in perfect condition; no reasonable offer refused. Apply, SEARLE, 16 Market Street, Tamworth, Staffs.

3 DOZ. 1s. plate-powder, 1s. 6d. doz.; 8 painters' brushes, cost 3s. 6d. each, accept 2s. each; 1 lb. tr. cimicifuga, 2s. 3d.; 1 lb. ol. eubebis, offers; 1 metal spray for ethyl chloride, 5s. RIDING, Crookes, Sheffield.

WANTED.

CHEMIST desires to purchase handsome dispensing screen, 6 to 8 ft. in length; also complete set of shop rounds. 38/26, Office of this Paper.

OPTICIAN'S trial case, mounted lenses. Send particulars contents, ACHESON, Chemist, Belfast.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

THE EXCHANGE COLUMN.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their bona-fides.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 5d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

MINOR EXPERIENCES.

Cassius (32/33) writes that he did not think his prospects rosy on beginning his third attempt at the London Minor after six months in a full-time berth. His good fortune began with a remarkably easy

DISPENSING paper, as follows:

Ol. amygdalæ	3iss.
Tr. benz. co.	3ss.
Mucilag.	q.s.
Aq. cinnam. ad	3iv.
3j. t.d.s.	
Pot. iod.	gr. v.
Ol. theobrom.	q.s.
In suppos. j. Mitte vj.	
Pulv. euonymi	gr. ij.
Pulv. capsiei	gr. ij.
Pulv. rhei co.	gr. j.
In pil. j. Mitte xx.	
Ext. tarax.	3ss.
Tr. nucis vom.	3j.
Mist. sennæ co.	3v.
Aq. ad	3x.
3j. bis die.	

CHEMISTRY in the afternoon was also very fair. Three items were given. "Estimate the percentage of sodium chloride in the given powder with decinormal solution of silver nitrate provided. Qualitatively analyse the insoluble portion of the powder. Find the specific gravity of the sample of Rochelle salt." The insoluble substance was zinc phosphate, which result was not arrived at. Pure chloroform was supplied for the specific-gravity determination. "*Cassius*" continues: In due course I received notification to attend for the oral part of the picnic. This surprised me somewhat, and I did not expect to go far. Fortunately,

PRESCRIPTION-READING came first. After working out an absurdly easy calculation, I had to write a script in full Latin. Then about a dozen to read in English. About thirty doses, a dozen strengths of potent preparations, and a few questions on "gumption" finished an enjoyable quarter of an hour.

PHARMACY occupied most time. First I had to write out all the emulsifying agents I knew, then to sketch a water-bath and an air-oven. How is acetum ipecac. made? Then preparation of acetum scillæ and acetum cantharidis. What are the oleates of the B.P.? How are they made? What is soft soap chemically? How is lime-water made? Dose? Liq. calcis sacch.? Dose? Why is sugar used in making it? How is liquor epispasticus made? Why use acetic ether? What is meant by destructive distillation? Examples from B.P. What is fractional distillation? Explain evaporation, ebullition. Questions on the infusions and injections. How many salts of morphine in the B.P.? Name them. Give the doses. Name ingredients of pulv. ipecac. co., pulv. kino co., pulv. opii co., pil. saponis co., pil. plumbi co. opio. Strength of opium in each? Questions on the suppositories of the B.P. Why is white wax put in suppos. acid. carbolic? The method of estimating percentage of morphine in opium concluded a rather long, but perfectly fair, "dosing."

CHEMISTRY, my *bête noire*, next. Luckily for me it was very simple. Write out the formulæ of all the organic compounds in the syllabus. How are oxalic acid and chloral hydrate made? The arrival of tea necessitated the further use of foolscap. I was asked to write out the methods for obtaining the oxides and chlorides of mercury, phosphoric acid, sodium thiosulphate, boric acid, and hydrofluoric acid. State Boyle's Law, Avogadro's Hypotheses, Graham's Law, and Gay-Lussac's Law. Give the law of conservation of energy. Give an example.

BOTANY followed with a gentleman who will always occupy a warm place in my heart, and who for kindness and endeavour to put one at ease absolutely took the "Abernethy." Give the common names of about twenty of the plants on the syllabus. Natural Orders of a few. The chief differences of the *Rosaceæ* and the *Ranunculaceæ*. The number of stamens in flowers of *Leguminosæ*, *Compositæ*, *Solanaceæ*, *Liliaceæ*, and *Umbelliferae*. What is diastase? How obtained? Give the life-history of yeast.

MATERIA MEDICA came last. Here I was given various specimens to recognise, including three varieties of buchuleaves, jaborandi, coca, cherry-laurel, belladonna, and digitalis leaves, mentioning chief characteristics, Natural Orders, and habitats. I was then shown juices, barks, and fruits. I recognised nearly all, but was painfully weak on being questioned on their active ingredients. Questions on opium concluded a trying time.

After waiting for about ten minutes, during which I was congratulated in mistake for another candidate, after tying myself into knots and watching all the other men go, I at last was congratulated by the President, who apologised for delay and trusted that I should have a jolly good time that night.

NEW BOOKS.

Any of these books printed in the United Kingdom can be supplied, at the published price, to "C. & D." subscribers on application (with remittance) to the Publisher, 42 Cannon Street, London, E.C. These notes do not exclude subsequent reviews.

Allen, R. W. *Vaccine Therapy: Its Theory and Practice*. 4th edit. 8½×5½. Pp. 454. 9s. net. (H. K. Lewis.)

Davis, F. *Childhood: Its Nature, Nurture, Psychology, and Education in Relation to Social Life*. 9½×6½. Pp. 90. 5s. net. (Bale, Sons & Danielsson, Ltd., 83-91 Great Titchfield Street, Oxford Street, London, W.) [Mr. Frederick Davis, B.Sc., is known in the pharmaceutical world for his tuition work, and many of his pupils will be interested in this thesis which the author presented to the University of London for the Honours examination. Various aspects of child-life are dealt with, and among the conclusions reached is one that "the child of to-day is in an infinitely better position to any previously recorded in our history, and, as a consequence, we may look for better social conditions in the twentieth century, with higher conceptions and better treatment by education in human life."]

Euler, H. *General Chemistry of the Enzymes*. Trans. by T. H. Pope. 9½×5½. Pp. 323. 12s. 6d. net. (Chapman & Hall, 11 Henrietta Street, London, W.C.) [The chapters are (1) special chemistry of the enzymes; (2) physical properties of the enzymes; (3) activators, paralyzers, and poisons; (4) chemical dynamics of enzyme reactions; (5) influence of temperature and radiation on enzymic reactions; (6) chemical statics in enzyme reactions; (7) enzymic syntheses; (8) specificity of enzyme action; (9) practical methods.]

Hazell's *Annual, 1913*. 7½×4½. Pp. 592+cxii. 3s. 6d. net. (Hazell, Watson & Viney, Ltd., 52 Long Acre, London, W.C.) [This well-known annual, revised to November 25, has been issued this week, and is, as usual, full of interesting and useful matter dealing with the public life of the world. One section, entitled the "March of Science," reviews in an abbreviated form the progress made in 1912. Two and a-half pages deal with medicine and surgery, such subjects being dealt with as radium medication, ionic treatment, the dangers of salvarsan, milk preservatives, flies, and foot-and-mouth disease. Another page deals with "Physics and Chemistry," and mention is made of Dr. W. H. Perkin's announcement regarding synthetic rubber, this being incorrectly stated to have been made before the Chemical Society, instead of the Society of Chemical Industry. Next to this comes an account of the making of the Panama Canal, a subject which for several reasons is at present in the public eye. The last page deals with weights and measures, and under apothecaries' weights we read the curious statement that "the scruple and drachm are almost exclusively limited to medical prescriptions, and are falling into disuse, modern practitioners preferring a simple statement of ounces and grains."]

Heath, C. E. *Beginner's Guide to the Microscope*. 7½×4½. Pp. 119. 1s. net. (P. Marshall & Co., 26-29 Poppin's Court, Fleet Street, London, E.C.) [A nicely written account of the construction and uses of the microscope, with illustrations which assist in the elucidation of the difficult points. It is a good first book on the microscope.]

Public Health Chemistry and Bacteriology: A Handbook for D.P.H. Students. By David McKail, M.D.(Glas.). D.P.H. 7½×5. Pp. 409. 6s. 6d. net. (Bristol: John Wright & Sons, Ltd.) [This work, intended primarily for public-health students, forms a useful guide to bacteriology, chemistry of foods, and examination of water and disinfectants. The exigencies of space prevent in many cases more than a bare outline of methods of bacteriological and analytical procedure being given, but the author provides his readers with a fairly complete and concise review of the various processes in use. A blot on the work is the use of contractions and chemical formulæ. Thus in the text we find NaOH for sodium hydrate, M.D.P. for *m*-phenylene-diamine, aq. dest. for water, SnF for solids not fat, etc.]

Ransom, B. H. *The Nematodes Parasitic in the Alimentary Tract of Cattle, Sheep, and other Ruminants*. (Bur. Animal Ind.) 152 illus. 9¼×6. Pp. 132, swd. 2s. 6d. net. (Wesley.)

WILLS PROVEN.

MR. BENJAMIN WHITROW, chemist and druggist, 71 Upper Grosvenor Road, Tunbridge Wells, who died on September 17, left estate valued at 3,220*l.* 11*s.* 4*d.* gross, with net personality 417*l.* 1*s.* 9*d.*

MR. WASHINGTON EPPS, M.R.C.S., L.R.C.P., Wellfield Cottage, Wellgarth Road, Golders Green, London, N., who died on October 13, left estate of the gross value of 36,948*l.*, of which 36,644*l.* is net personality.

MR. HENRY GRAYSON WOODLIFFE, chemist and druggist, 1 Hamilton Place, Charlton Kings, Glos., who died intestate on November 5, aged forty-two, left estate of the gross value of 158*l.* 1*s.* 4*d.*, with net personality *nil*.

MR. WILLIAM LAURENCE CLARKSON, Arthur Street, Dingle, Liverpool, for forty-seven years with Messrs. Bell, Sons & Co., wholesale druggists, of Lydia Ann Street, Liverpool, who died intestate and a widower on September 20, left estate of the gross value of 249*l.* 12*s.* 3*d.*

MR. JOHN ROBERTSON, J.P., chemist and druggist, 13 North West Circus Place, Edinburgh, who died on August 24, left personal estate in the United Kingdom valued at 15,274*l.*

THE late Miss Isabella Reid, daughter of Mr. David Reid, chemist, Aberdeen, left estate valued at 5,473*l.*

The Shops Act, 1912.

Aberystwyth.—The Town Council issued on December 4 a general closing order for chemists at the following hours: Mondays, Tuesdays, Thursdays, and Fridays, 8 P.M.; Wednesdays, 1 P.M.; and Saturdays, 10 P.M. Between July 1 and September 30 and at holiday times there is to be one hour's extension each day. The order is not applicable to the sale of medicines and medical and surgical appliances.

Brighton.—Photographic dealers having obtained an exemption order under the Act, all photographic goods may now be sold by pharmacists throughout the district on the weekly half-holiday.

Devizes chemists have voluntarily agreed to close all the year round at 7.30 P.M. on Mondays, Tuesdays, Thursdays, and Fridays; 1 P.M. on Wednesdays; and 9 P.M. on Saturdays.

Dorking.—The Surrey County Council on December 6 issued an order for chemists to close on Wednesdays at 1 P.M.

Hornsey.—At the last meeting of the Borough Council it was reported that the Home Office had returned the draft of the Half-holiday and Closing Order for Chemists' Shops with a clause inserted therein providing "that the shops may be kept open after the closing hour on other weekdays than that of the weekly half-holiday for the sale of medicines and medical and surgical appliances and, subject to the provisions of any other order for the time being in force, for the purpose of any trade or business other than the trade of a chemist." The committee added that the effect of this provision is to render an evening closing order of little or no utility. Mr. A. E. Bailey, Highgate, who had acted on behalf of the local chemists, was communicated with, and he had written a letter stating that, considering the trouble and expense entailed in making the closing order and the very small benefit accruing from it, the application for the order had best be withdrawn. The committee therefore recommended that only the making of the weekly half-holiday order be proceeded with, and that the resolution passed by the Council at their meeting relating to the hours of opening of 'chemists' shops should be rescinded. This the Council agreed to.

Hull.—The City Council on December 5 made a weekly half-holiday order for pharmacists and drug-store proprietors. The occupiers of seventy-six out of ninety-one shops had signed the petition in favour of making the order.

London.—At the meeting of the County Council on December 3 it was stated, in reply to a question, that Wandsworth, St. Marylebone, Chelsea, and Holborn Borough Councils are prepared to administer the Shops Act, and that the Councils of Hampstead, Islington, Bermondsey, Shoreditch, Stepney, Stoke Newington, Woolwich, Bethnal Green, Lambeth, Fulham, and St. Pancras have declined to administer it.

Maidenhead.—The Town Council has decided to make an order for chemists to close on Thursdays at 1 P.M.

Pershore chemists have signed a petition in favour of exemption from half-day closing.

Reigate.—In the amended order issued by the Town Council on December 3 the weekly half-holiday is to be on a Friday when Christmas Day falls on a Wednesday, the usual early-closing day.

Southwark.—The Borough Council has reaffirmed its decision, at a meeting on Thursday, November 28, not to undertake the administration of the Shops Act in the Borough, adding that the London County Council be urged to secure its proper administration at the earliest possible date.

POISONING FATALITIES.

NINETEEN deaths from poisoning have been reported during the last two weeks. In six instances these were accidental.

Acetanilide.—At Dukinfield, during the inquiry into the death of Robert Collis (68), the report was read of Mr. Carter Bell, County Analyst, which stated that he found a trace of acetanilide in the stomach-contents of deceased. The Coroner put questions to witnesses with a view to eliciting that deceased was in the habit of taking headache powders, but deceased's daughter emphatically stated that her father had not taken such powders since last August, and this was not controverted by other evidence. A verdict was returned in accordance with the medical evidence, which was to the effect that if Collis had taken a powder on the morning of his death it would have contributed to it.

Antimony.—James Jones (79), Bargoed, drank butter of antimony in mistake for beer, with fatal results.

Carbolic Acid.—Alice Martin (54), of Cradle Hall Farm, Burnham Westgate, Norfolk, and John Skidmore Simcox, relieving officer, Hatfield, killed themselves with this poison.

Chloral.—Henry Benson (73), Sutton, who had been given some medicine containing chloral, with strict instructions how much to take for one dose, drank half the contents of the bottle, and died. At the inquest a verdict of "Death by misadventure" was returned.

Hydrochloric Acid.—The Southwark Coroner (Dr. F. J. Waldo) inquired on December 2 into the death of James Goddard (54), market porter, of Bermondsey, who committed suicide by drinking spirit of salt. Mr. Roland Donne Millward, chemist and druggist, from whom the poison was purchased, elected to give evidence, after being cautioned by the Coroner. Dr. Waldo said he observed that the witness was registered in 1882, his address being given as 11 Agar Street, Strand, W.C. Mr. Millward said he was at present carrying on business with a partner at 127 Long Lane, Bermondsey, as 'Tyrer's Drug-stores, and that he lived at 50 Offley Road, Brixton. He left Agar Street two years ago, but had not given the Registrar notice of his change of address. The witness explained that deceased asked for a pennyworth of the acid to clean a market basket, producing a pink teacup for it. Witness declined to supply it except in a bottle, as required by law, but deceased persuaded him with the plea that it was to be used immediately. The Coroner commented on the infraction of the law. The jury returned a verdict of *felo de se*, and added a rider, and asked the Coroner to tell Mr. Millward to be more careful in future. The foreman remarked that the jury felt that if the deceased had had a bottle the result would have been the same, and that they did not wish the matter to go any further. The Coroner: It is not for you to say that. The police are here watching the case, and it is a matter which rests with the Pharmaceutical Society, who will prosecute if they think proper.—Spirit of salt was used for purposes of self-destruction by Henry James Gandar (35), caretaker of a Lambeth school; George Henry Dainty (49), London Road, London, S.E.; and William George Bolt (72), of Fulham.

Laudanum.—At Skelton, during the inquiry into the death of a woman named Nelson, who died from an overdose of this opiate, it was stated that a carrier had for ten years obtained laudanum for the woman about once every three weeks from Mr. W. Priestman, Ph.C., Penrith. The foreman of the jury said it seemed unreasonable to supply 16 oz. of laudanum on a verbal message by a carrier without the consent or knowledge of the husband. The Coroner (Mr. F. W. Halton) said he learned that the supply had been going on for several years as a matter of course. It was only recently discovered for whom it was purchased. One of the witnesses declined to express an opinion as to what it is reasonable for a chemist to do in such circumstances, or to say how he should manage his business. The jury found a verdict of "Death from an overdose of laudanum," and added a rider that they were of opinion that laudanum should be included in the Poisons Schedule.—Joseph Dunbar (42), clerk, Hanley, committed suicide with this narcotic. A juror remarked at the inquest that it seemed a poison which is very easily obtainable. Dr. Day: "Yes, too easily; but I think chemists are very careful if they think poison is being obtained for a wrong purpose."

Nicotine.—At West Vale, near Halifax, a greengrocer's assistant, named Joe Willie Lumb (18), committed suicide by drinking a concentrated tobacco preparation.

Nitric Acid.—James Hall, jeweller, Prescott, poisoned himself with aqua fortis.

Oxalic Acid.—Christina Herbert (35), the wife of a Motherwell miner, died through drinking a cupful of salt-of-sorrel solution in mistake for a dose of "salts."

Potassium Cyanide was the suicidal agent used by Charles Stephen Snowsell (38), working jeweller, New Malden, and Henry Mills (45), French polisher, Cardiff. At the inquest on the latter the Coroner commented upon the easy manner in which poison could be obtained without complying with the provisions of the Poisons Act. Deceased had probably got the chemical from a photographic friend, who in supplying it had infringed the law.

Prussic Acid.—The death from poisoning of Sidney Arthur Kinglake (62), descendant of the famous historian of that name, in an hotel in Knightsbridge, London, S.W., was due to this lethal agent.

Trional.—"Death through trional-poisoning, through inadvertency in having taken too much," was the verdict at the inquest on Mrs. Annie Louise Denison, of Bembridge, I.W.

Veronal was used for suicidal purposes by a Brighton widow named Mary Armstrong (73).

COLONIAL AND FOREIGN NEWS.

CYPRUS PHARMACY LAW.—Among the measures passed during the Session of 1911 was the Pharmacy Amendment Law, providing for the appointment of an Examining Board for admission of candidates for enrolment as chemists and druggists, the previous Board having been repealed by the Medical Practitioners (Licensing) Repeal Law of 1910. At the same time the law indicates more clearly than existed in the old law the syllabus of the examination which candidates will be required to pass, and raises the examination-fee to 2*l.* as the *personnel* of the Examining Board is increased.

QUININE DISTRIBUTION IN JAMAICA.—During 1911-12 the Malaria Commission in Jamaica distributed 110,600 doses of 5-grain quinine tablets, 219,302 doses of 3-grain tablets, and 10,500 doses of 2-grain tablets. The post-offices distributed 221,100 packets of 5-grain, 8,000 packets of 2-grain, and 9,000 packets of 1-grain tablets. The various estates where indentured immigrants are employed used 232,750 5-grain doses. The various parochial boards used 222 oz. sulphate. Quinine distribution to school children at 250 schools was continued throughout the year, and it is on sale at all post-offices in $\frac{1}{4}$ d. packets, containing one dose.

SHEEP-DIPS IN URUGUAY.—It will be remembered that last year a law was promulgated imposing a tax of 10*c.* per kilo. on sheep-dips, which were previously admitted free of duty. In the preamble to the Bill it was stated that the bulk of the sheep-dips (and other remedies against scab, tick, etc.) could be manufactured as well in Uruguay as abroad, if not better. About 100,000*l.* worth of British sheep-dips are sold annually in Uruguay, and this duty necessarily involves their elimination from the market (says the British Consul for Uruguay) if brands of equal efficiency can be manufactured in Uruguay, as confidently anticipated by the promoters of the law. A local syndicate is arranging to establish a factory shortly.

HINTS TO BRITISH TRADERS.—The principal impediment in the way of British firms not already established in the Uruguayan market (says H.M. Consul at Montevideo) is the difficulty of finding British agents in Montevideo. He states that British firms in Montevideo are in most cases so occupied with their existing business that they have little desire to embark on new agencies. This applies also to Uruguayan firms, with whom there is the further difficulty of dealing in Spanish. Accordingly letters from British firms to traders in Uruguay offering agencies frequently find their way to the waste-paper basket, or meet with an evasive reply, for it is now axiomatic in Montevideo that if a foreign firm has business worth offering, it will send a competent man to appoint an agent.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

THE IMPERIAL HYGIENIC LABORATORY has been newly constructed in the palace grounds at Tokyo. All the food-stuffs and drugs for royal use will be examined there.

THE CHEMICAL AND BACTERIOLOGICAL LABORATORIES at the Kyoto University were burnt out on October 22, many valuable books being also lost. The damage is estimated at 200,000 yen.

DEATH.—Professor Junejiro Furuya, of the Chiba Medical College, died from cancer of the stomach on October 25, at the age of forty-nine. He returned from Berlin only last May, where he had obtained further pharmacological experience.

SALE OF MORPHINE IN KOREA.—A Japanese druggist, Masajiro Uchida, a member of the Japanese Municipal Assembly at New Wiju, Korea, was fined yen 200 for having frequently sold morphine secretly to Chinese. Another Japanese druggist at Pyongyang was similarly punished for the same kind of offence. The "Seoul Press," in commenting on these cases, states that the morphine habit is spreading among the Koreans at an alarming rate.

TROPICAL SCHOOL OF MEDICINE.—For the last two years a scheme for the establishment of a Tropical School of Medicine in connection with the Calcutta Medical College has been under the consideration of the Government of India, who have agreed to give a non-recurring grant of 5 lakhs towards the construction of the necessary laboratories and research rooms, and to pay a portion of the recurring charges. This scheme has now received the sanction of the Secretary of State, and will be taken in hand at once.

HIGHER TECHNICAL COLLEGE.—The German Association School, established in 1881 with the aim of transplanting German civilisation and methods to Japan, has recently decided to establish a Higher Technical College under the approval of the German Government and the industrial world. The capital, estimated at yen 1,000,000, is to be contributed by German and Japanese sympathisers, including Count Aoki, Barons Hirata and Kato, and Dr. Nagai (President of the School), the German Ambassador, and Prince Katoura. A site has been selected at Kabata, about six miles from Tokyo.

ALLEGED BREACHES OF TRUST.—W. J. Kennedy, assistant at the Co-operative Medical Stores, 10 Dhurumtolla Street, Calcutta, was fined Rs. 150, or in default fifteen days' imprisonment, for failing to pay Rs. 130, money which he had received as duty to the Customs authorities on certain goods of the firm awaiting delivery.—A ledger clerk in the National Bank of India was remanded at Calcutta on a charge of alleged theft. He had a place of business of his own at Hooghli, and had been in the habit of indenting for goods from Europe through the bank, his last indent being for Rs. 92,000 (6,000*l.*) worth of patent medicines. By manipulating his books he obtained possession of the bills of lading relating to his indents.

THE MALARIA CONFERENCE opened its session at Madras on November 18, when, in the course of his address, the Hon. Surgeon-General Sir Pardey Lukis (the President) said that during the past twelve months quinine prophylaxis has been subjected to severe criticism by many observers, who pointed out that even when persons are taking large doses of that drug, more than 25 per cent. of them show malarial parasites in their peripheral blood. It has been suggested in certain quarters that in India this is due to the fact that the Government quinine is inferior to that supplied by European firms, either as a result of defective manufacture or deterioration from storage in a hot climate, but this the President refuted. In 1910 quinine both of Bengal and Madras manufacture was subjected to independent analysis in Amsterdam, and it was proved to be in every respect of the same chemical composition and purity as the best English quinine.

STUDY your physicians' needs and hobbies.

STUDY new drugs, new remedies, and incompatibilities.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in British South Africa, as well as to other chemists in business there.

Cape Province.

A SMOKING-CONCERT was held at the Royal Hotel, Cape Town, on November 14, as a send-off to the President of the Pharmaceutical Society of Cape Province, Mr. J. Austin Thomas, J.P., who left Cape Town for England on November 20. Among those present were Mr. Frank C. Mathew (of Heynes, Mathew, Ltd.), Mr. J. Scott (Petersen, Ltd.), and Mr. G. R. Cleghorn, member of the Colonial Pharmacy Board. The Chairman (Mr. F. C. Mathew) remarked that Mr. J. Austin Thomas would be very gratified with the spontaneity and informality of the gathering to do him honour that evening. It represented a wide circle of the craft to wish him *bon voyage*. Mr. Austin Thomas had worked up through the Council to the highest position of the Society, and as Chairman showed a large amount of tact. All present joined in wishing him a pleasant holiday and an early return. Mr. Thomas said it was pleasant to know that one's efforts are appreciated. He hoped to come back with renewed energy, and if elected to the Council, which had every sign of having a strenuous time before it with the Defence Bill, he hoped to do everything in his power to see that chemists got justice. Mr. Blake Jardine was mainly responsible for the arrangements, towards the success of which the artistes materially helped.

Natal.

PERSONAL.—Mr. E. G. Nichols, of Evans Sons Lescher & Webb, was in Durban when the mail left.

P.A.T.A.—A meeting of Durban chemists to discuss the South African Proprietary Articles Trade Association was held on November 4. The proposals, which emanated from Cape Town head office, as to the suggested profit were fully dealt with. Chemists in Durban seem to be in favour of price-protection, and a suggestion that the Durban Chemists' Retail Price-list, which has just been revised, should be used as a basis for retail prices for Natal was carried.

BUSINESS CHANGES.—The last of the old-established businesses of the late Mr. C. E. Forth has now been sold. The business in question was the principal shop in the Forth estate, and situated at 191 West Street, Durban. The new proprietor is Mr. J. K. Murray, at present manager for Messrs. Turner & Co., Maritzburg. The business, however, will be carried on in the old name until the end of the year, from which date it will be known as the Seaforth Pharmacy. Improvements in the construction of the shop are being effected.—While a plumber was at work on a side wall of Forth's chemist shop in King Street, Durban, part of the wall collapsed, which threatened the stability of the whole. After inspection by the municipal building inspector it was decided to rebuild the whole of the side wall, which has now been done. The old wall of the two-storey building, which was built upon sandy soil almost without foundation, stood the test of time for over thirty years.

Natal Pharmaceutical Society.

THE monthly meeting of the above Society was held at the rooms of Mr. G. Stuart Jones on November 4 at 8.15 p.m. There were present Messrs. Dunkerton (Chairman), Champion, Stranack, Tyson, Fyvie, Firth, Irving, Acton, Cooper, Edwards, Gale, Whysall, Nichols (Evans Sons Lescher & Webb), and Goodbrand (Hon. Secretary). Regrets for absence were tendered by Messrs. Jones and Anderson.

CORRESPONDENCE.—The Hon. Secretary read a letter from the Eastern Districts Pharmaceutical Association at East London requesting this Society:

- (1) To co-operate in obtaining a draft of the Colonial Pharmacy Act.
- (2) To write to the Postmaster-General with a request that the regulation regarding the packing of liquids in

wood and metal cases be cancelled, thus allowing chemists to pack medicines in fluted paper as before.

The Hon. Secretary was instructed to reply:

(1) That the President would see Mr. P. A. Silburn on the matter before his departure for the Cape.

(2) That this Society could not see its way to adopt the proposal.

TECHNICAL INSTITUTE.—Mr. Dunkerton introduced the subject of the training of chemist apprentices at the Institute, and thought that something might be done by the Society to better the conditions. After some discussion it was resolved to appoint a deputation consisting of Messrs. Dunkerton, Champion, and Stranack, to interview the Principal.

DISPENSING.—The attention of the Society was drawn to the fact that in some up-country towns medical men did their own dispensing, to the detriment of the chemist. The President read the Act on the subject, which clearly gives medical men this privilege.

COMPLIMENTARY DINNER.—The balance-sheet of the dinner to Mr. Anderson was presented by the Hon. Secretary and passed. The President drew attention to the fact that it was now possible to hold an annual dinner.

The following report of the case against the Regal Manufacturing Co. is appended by the Secretary:

Towards the end of May the attention of the Society was drawn to the fact that the Regal Manufacturing Co., of 30 Prince Alfred Street, were contravening the Pharmacy Act by manufacturing syrup of figs, corn-solvent, and fruit-saline. The Hon. Secretary was instructed to inform the C.I.D., which was done. The case came up for trial before the Chief Magistrate on August 23 and 26, when the partners of the defendant's company, Pitt and Le Fevre, were each fined 10s. for manufacturing syrup of figs and corn-solvent without being registered chemists.

Foods and Medicines.

THE following are the regulations for infants' and invalids' foods and proprietary medicines under the Health Act of Western Australia, which will come into force on May 1, 1913:

Infants' Food and Invalids' Food

1. Infants' food shall be any food described or sold as an article of food suitable for infants. It shall not contain more than one trace of woody fibre, nor any mineral substance which is insoluble in acid.

2. In the principal label attached to every package of infants' food which contains starch, or which, when prepared as directed by any accompanying statement or label, does not conform approximately in proportional composition to human milk, shall be written the words "Not suitable for infants under the age of six months" in bold-face sans serif capital types of not less size than twelve points face measurement. The said words shall form the first line or lines of the said label, and no other word shall be written on the said line or lines.

3. Infants' food shall contain no preservative or other foreign substance.

4. Invalids' foods shall be food substances modified, prepared, or compounded, so as to possess special nutritive and assimilative properties which render them specially suitable for use as food by invalids.

5. Invalids' foods shall contain no preservative or other foreign substance.

6. There shall be written in the principal label attached to any package containing any article of food described as or purporting to be infants' food or invalids' food, a statement of the names and proportions of the ingredients contained in it.

Patent or Proprietary Medicines.

1. There shall be written in the principal label attached to every package containing any patent or proprietary medicine a statement (in English) of the ingredients and the proportions of the same in such medicine.

2. Exemption from compliance with the provisions of the foregoing paragraph may be granted upon the following conditions:

(a) That the particulars required by the regulation in respect of the medicine for which exemption is sought be deposited with the Commissioner of Public Health.

(b) That no change whatever be made in the composition of the medicine without such change being notified to the commissioner.

(c) That the manufacturer or importer of, or agent for, such medicine sign an undertaking that all of such medicine sold or exhibited or intended for sale in Western Australia shall comply with the particulars deposited in accordance with the regulations.

3. For the purposes of this regulation the definition of "Patent or proprietary medicine" contained in Section 187 of "The Health Act, 1911," shall apply.

"THE CHEMIST-OPTICIAN" is the first book which chemists should read who want to know how to make money off spectacles and eyeglasses. Post free from the C. & D. Office, 42 Cannon Street, London, E.C., for 4s. 3d., or from any wholesale house with order for 4s.

DINNERS.

THE annual dinner of the *Hull Pharmacists' Association* was held on December 5 at the Grosvenor Hotel. Mr. T. Smith (President) occupied the chair, and the guests of the evening were Dr. Wright Mason (Medical Officer of Health), Mr. A. R. Tankard (City Analyst), Mr. Lofthouse, and several representatives of wholesale drug-houses. Mr. Robinson proposed "The Pharmaceutical Society," and Mr. Richardson, in responding, said that in regard to the National Insurance Act the most important thing was that for the first time chemists have received State recognition. He looked forward to the time when all the dispensing would be done by the chemists. Mr. Stoakes proposed "The Medical Profession," and Dr. Wright Mason, in responding, said he had every confidence that in the future they would get considerable benefits from the National Insurance Act. Mr. Lofthouse proposed "The Hull Pharmacists' Association," and to this the President responded, remarking that the Association was never in a better position than now. Mr. Staning proposed "The Visitors," and Mr. A. R. Tankard responded. During the evening a good musical programme was contributed.

THE annual dinner of the *Leith District Chemists' Association* was held in Queen's Hotel, Leith, on Wednesday, December 4, Mr. D. W. Nicolson (President) in the chair. After the loyal toast, Mr. Archibald Currie proposed "The Pharmaceutical Society," Mr. J. Rutherford Hill replying. Mr. W. T. Robson proposed "The Edinburgh District Chemists' Association," congratulated the Association upon attaining its majority this year, and referred to a suggested amalgamation of the two Associations, but said, as the Leith Association is but six years old, it was "ower young to marry yet" with one so much its senior. Mr. G. H. C. Rowland, in replying, said young things have usually a very exalted opinion of themselves, and, after all, enthusiasm is only to be expected from infancy and young manhood. Mr. Noble proposed "The Wholesale Trade," and Dr. Coull replied. "The Leith Association" was given by Mr. G. H. C. Rowland, the President acknowledging. Between the toasts songs were rendered by Messrs. Beveridge, Tait, Rowland, Murray, and Hill, and recitations by Mr. Walker and Mr. Nisbet. Mr. David Cooper officiated at the piano.

MEMBERS of the *Torquay Chemists' Association* held their annual dinner on December 6 at the Central Hotel, Torquay. The President (Mr. John Taylor, J.P., F.C.S., F.L.S.) was in the chair, and the vice-chair was occupied by Mr. R. Horner. After dinner, the loyal toast, and that of "The Navy, Army, and Reserve Forces," to which Captain Garratt, commanding the Devon Royal Engineers, replied, Mr. W. L. Bridgman proposed the toast of "The Torquay Pharmacists' Association." The President, in acknowledging the toast, stated that the Torquay Association embraced all the towns within the area covered by the Torquay Parliamentary Division, though at present they were like the conies, a feeble folk. (Laughter.) Continuing, he said that whatever difference of opinion they might hold with regard to recent legislation, he considered it to be their duty to carry out the law of the land. As a Magistrate, he had at times been called upon to administer laws with which he did not personally agree. His advice to chemists as to the National Insurance Act was for them to come on the panel when formed, and if they did not like it after six months they could come off it. Mr. E. Quant proposed the toast of "The Pharmaceutical Society," to which Mr. H. F. Bourne replied in the absence of Mr. Rowsell (Exeter), who had been called away to London in connection with the National Insurance Act. Other toasts were "The Ladies," submitted by Mr. Ventham and acknowledged by Mr. Swaffin; and "The Visitors," proposed by Mr. Dunsford and replied to by Mr. Butts (Exeter).

THE *East Aberdeenshire Pharmacists' Association* entertained Mr. J. F. Tocher, B.Sc., F.I.C., to dinner at Maud on Thursday, December 5, on the occasion of his giving up his pharmacy in Peterhead to devote himself solely to analytical and educational work in Aberdeen. Mr. James Christie (Old Meldrum, President of the Association) was in the chair, and a goodly company of Aberdeenshire pharmacists was present. After dinner and the toast of "The King," the health of Mr. Tocher was proposed by the Chairman, who spoke of the guest's distinctions in pharmacy and science, and his services to the pharmacists of East Aberdeenshire. These sentiments were more formally expressed in an illuminated address, which the Secretary (Mr. Alex. Milne) read. The design of the address embraces an oval at the top, flanked by richly illuminated work, in which

a life-like photograph of Mr. Tocher is inserted. In the centre of the left-hand illuminated panel is a water-colour drawing of the Mitchell Tower of Marischal College, to mark Mr. Tocher's connection with Aberdeen University, and at the right-hand bottom corner, in a circle in gilt letters, is Mr. Tocher's monogram "J. F. T." The engrossing is very effectively done in Old English black letter with illuminated capitals. The Chairman asked Mr. Tocher to accept the address and a comfortable easy chair, and concluded by calling the company to pledge Mr. Tocher's health. This was done, and Mr. Tocher made a feeling reply. In the course of his speech he referred to the National Insurance Act, and said if pharmacists are to be handicapped by any rearrangement, it would mean political robbery and jobbery of the very worst kind. He strongly contended that adequate provision had not been made for pharmacists under the Act. After dealing with anticipations which have not been realised, he concluded by saying that in this matter unity should be the watchword of the whole of the pharmacists. Mr. Hunter, the newly elected President of the Association, in the course of a short speech referred in highly complimentary terms to Mr. Tocher's work. Other toasts were: "Kindred Associations," proposed by Mr. John H. Low (Fraserburgh) and replied to by Mr. McMurtrie and Mr. J. Reith; and "The Retiring President," given by Mr. Tocher and acknowledged by Mr. Christie. Mr. A. Milne, Mr. R. J. Millar, and Mr. Charles Murray contributed to the entertainment of the company.

A STAFF DINNER of the employes of Messrs. Jas. Houghton & Sons and Jas. & Hy. Browning & Co., 27 Bartholomew Close, London, E.C., was held at the Holborn Restaurant on Saturday, December 7. Over forty sat down under the presidency of Mr. Henry Poole, the firms' South Coast representative. A most enjoyable time was spent. The Chairman submitted the toast of "The Firm," and Mr. J. H. Chown responded. The toast of "The Travellers" was given by Mr. G. H. Clark, "The Staff" by Mr. J. Poole, and "The Visitors" by Mr. F. C. Button, suitable responses being made. There was a musical programme, contributed by Messrs. J. H. Chown, G. H. Clark, W. B. Wigzell, and I. J. Ledbrooke, and Miss Catherine Poole.

In our report of the dinner of the Westminster College of Chemistry, Pharmacy, and Botany last week (Coloured Supplement, December 7) we referred to Wills's Universal Postal System, the fortieth anniversary of which was one of the reasons for the gathering on November 28. Mr. G. S. V. Wills thus recalled the origin of the postal system:

In 1872 I applied for the post of dispenser to the late Queen Victoria's household, but although I held the Minor certificate the physician said it was necessary that I should hold the certificate of the Apothecaries' Society. The result was I entered for the examination and was successful in passing it, and so secured the appointment. In my new position I sometimes found that I had ample leisure, and the question arose, How should I occupy myself—with music, drawing, or further study? One day the idea occurred to me, would it not be possible for me to impart some of my scientific knowledge to others? There are hundreds who are wanting to learn, so that they can pass the Minor examination. Can I not get into touch with them and teach them? My idea was not to farrow up my position, but to use the postal system while still keeping my own employment. Rapidly I followed up the idea, and developed what has since become known throughout the world as Wills's Universal Postal System. There must, I thought, be advertisements issued to attract students, a code of rules drawn up, lectures prepared, and boxes constructed in which the lectures, books, and illustrated specimens could be kept. The first postal box I constructed myself, and have kept it as a curiosity ever since. It will be on view in the reception room during the interval, where you will have the opportunity of inspecting it. As a mere box with compartments there is nothing wonderful about it, but as it was constructed forty years ago in connection with the epistolary method of instruction, considerable interest is attached to it. In 1874 I founded the present College and began to teach orally. I did not abandon the postal system, but, on the contrary, widely extended its operations, and at the present time the number of students who are availing themselves of the advantages it offers is greater than it has ever been.

Mr. Wills gave the names of students in various parts of the world who are at present receiving the lectures, and then proceeded to refer to the benefits of the system to apprentices, to whom it acts as a curriculum of study. An interesting interlude next took place, the students presenting the Principal with a gold hoop ring, and Mr. Wills feelingly replied. Later on the prize distribution took place, the following being the names of the medallists: Mr. T. Wilmot Lum, silver medal (dispensing); Mr. E. Wilson, bronze medal (chemistry); Mr. A. C. Brown, bronze medal (botany); Mr. J. S. Gilbert, bronze medals (materia medica and pharmacy); Mr. R. J. Owen, bronze medal (pharmacy); Mr. S. W. Hooper, bronze medal (dispensing). During the evening an excellent programme of music was rendered, further toasts were given, and a photograph taken of the company.

TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 55 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

- (From the "Trade-marks Journal," November 20, 1912.)
- "DEOZER"; for disinfectants (2). By A. E. Hawker, 59 Mark Lane, London, E.C. 345,937.
- "REDIPSO"; for an insecticide (2). By E. H. Coleman, 2 Sudley Terrace, Bognor. 346,232.
- "MAMMITEIN"; for cattle medicines (2). By E. K. Skinner, 109 Pitt Street, Sydney, New South Wales. 346,443.
- "MAZDAZNAN" and cross device; for medicinal chemicals (3). By G. Beeler, 86 Seymour Street, London, W. 343,512.
- "MOLYFORM"; for pharmaceutical preparations (3). By Chemische Fabrik Althertberg, Dresden. 344,976.
- Label device including words "NUTRIO PER ME" and "VALENTINE'S PREPARATION. MEAT JUICE"; for meat juice (3 and 42). By Valentine's Meat Juice Co., 661 East Cary Street, Richmond, U.S.A. 344,462/3.
- "ÆROPISE"; for a medicine (3). By the Standard Tablet and Pill Co., Ltd., Hove. 345,291.
- "LICAMORA" and "ROCAMORA"; for liquorice-juice (3). By Fuerst Bros., 17 Philpot Lane, London. 345,743/4.
- "HERBELIX"; for an internal medicine (3). By D. Stow, Glenkindie, Mountfield Road, Finchley. 345,923.
- "LITTLE GEMSALIN"; for pills (3). By B. B. Krakanowski, 61 Charlotte Street, Landport, Portsmouth. 346,106.
- "ARTHIGON"; for medicinal chemicals (3). By Chemische Fabrik auf Actien (vorm. E. Schering), Berlin. 346,384.
- "MILREB"; for an ointment (3). By A. Miller, 8 West Street, Bognor. 345,569.
- "OXYNALER"; for apparatus for resuscitating persons apparently suffocated or drowned (11). By Siebe, Gorman & Co., Ltd., 187 Westminster Bridge Road, S.E. 354,162.
- Label device with "HAY'S HAIR-HEALTH" and heads of man and woman in circle ("Hair-Health" and "Hay's" disclaimed); for hair-preparations (43). By Philo Hay Specialities Co., Newark, N.J., U.S.A. 345,043.
- "PALETTE" with picture of same; for perfumery, etc. (43). By C. C. Goodwin, Ordsall Lane Soap-works, Manchester. 345,853.
- Picture of plane with word "PLANO"; for non-medicated skin and teeth preparations (43). By Milner's Chemical Co., 44 Robson Street, Liverpool. 346,009.
- "SALOS"; for tooth-paste (43). By F. C. Long, 35 Otley Road, Headingley, Leeds. 346,228.
- "FRADOR"; for perfumery, etc. (43). By John Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E. 346,288.
- "SWEET MEMORIES"; for perfumery, etc. (43). By H. Bronnley & Co., Ltd., Warple Way, London, W. 346,391.
- (From the "Trade-marks Journal," November 27, 1912.)
- Device of bell with letters "G. B. & S."; for goods (1, 4, 5, 15, 16, 17, 20, 21, 29, 36, 37, 41, 47, 49). By G. Bell & Sons, 45-49 Friars House, New Broad Street, London, E.C. 343,617/18/19/23/24/25/27/28/31/32/33/36/37/38.
- Circular device in red, black, and white, including words "PEARL, PRECIOUS, POPULAR, PERFECTION, PRICELESS" ("Pearl" disclaimed); for goods (2 and 3). By T. G. Joyce, Lyttleton Works, West Bromwich. 338,399/400.
- "SEEDOLIN"; for a chemical for preserving seeds (2). By H. E. Hope & Co., 22 Billiter Street, London, E.C. 345,780.
- "CONNEE"; for veterinary lotions, etc. (2). By Farrages, Ltd., Market Street, Rothbury. 346,456.
- Device of girl with flowers; for medicated pomade (3). By Généraleuse Charance, 91 Rue Barrault, Paris. 345,775.
- Oblong label with words "WHITE ON RED" and letters "W. R. S."; for medicinal chemicals (3). By White on Red Syndicate, Oulton Broad. 344,299.
- Picture of athlete and silhouette of London; for medicinal chemicals (3) and for food-substances (42). By Southall Bros. & Barclay, Ltd., Birmingham. 344,478/9.
- Portrait of applicant; for an ointment (3). By J. P. Hallett, 26 Connaught Street, London, W. 345,986.
- "MUSTAVIT"; for an ointment (3). By A. W. Hamer, 35 Halvard Street, Bury. 346,018.
- "NEROMEL"; for a medicine (3). By F. B. Sleigh, 41 Market Place, Willenhall, Staffs. 346,111.

- Device of airship with fish and word "OVOLEO" over words "ABOVE ALL"; for oil preparations (3). By W. T. Cunningham, 39 Victoria Street, London, S.W. 346,410.
- Picture of "Nelson Column"; for goods (3). By Lorimer-Marshall, Ltd., Colebrooke Row, London, N. 346,631.
- "ARTHIGON"; for vaccine, etc. (11). By Chemische Fabrik auf Actien (vorm. E. Schering), Berlin. 346,534.
- "TOREADOR" with picture of same; for perfumery, etc. (43). By A. Finlay, Ltd., Victoria Square, Belfast. 345,349.
- "MENNALINE"; for a pomade (43). By Dearborn, Ltd., 32 Theobald's Road, London, W.C. 346,240.
- "MARILIS"; for perfumery, etc. (43). By C. C. Goodwin, Ordsall Lane Soap Works, Manchester. 346,536.
- "RAMONIL"; for dentifrices (43). By Eueryl, Ltd., 447, Wincolnlee, Kingston-upon-Hull, Yorks. 346,717.
- (From the "Trade-marks Journal," December 4, 1912.)
- "MITSUWA"; for all goods (2, 3, and 43). By Zenbei Miwa, Tachibana-cho, Nihonbashiku, Tokyo. 343,461/2/4.
- "GUAKOIDS"; for fertilisers (2). By A. Cross & Sons, Ltd., 19 Hope Street, Glasgow. 345,212.
- "FORMROSA"; for disinfectant bedding for kennels, etc. (2). By C. E. Horner, 1126 Bolton Road, Bradford. 346,212.
- "INFUCIDE" for insecticides, etc. (2); and "SIXEL" for all goods (2). By T. C. Lindsey & Co., Ltd., 17 Leather Lane, London, E.C. 346,679/80.
- "STERNOL" for goods (2 and 4); and "STERNOLINE" for goods (4). By the Stern Sonneborn Oil Co., Ltd., 17 Finsbury Square, London, E.C. 346,691/2/3.
- Label device including mermaid and words "SEAWEED TOILET SOAP"; for soap made from seaweed (3 and 43). By T. Ingham, Abbey Road, Greenfield, Flints. 337,605/6.
- Label device of woman holding scroll and torches and label with word "EBAGA"; for all goods (3). By Dr. Bayer és Társa, 17 Rakosutca, Budapest IX. 345,886/7.
- Picture of couple sitting by sea, and words "FEELS GOOD ON THE BACK" ("Feels good on the back" disclaimed); for medicated plasters (3). By Johnson & Johnson, New Brunswick, N.J., U.S.A. 346,294.
- "VUNDI"; for a rheumatism cure (3). By F. Forbes, 24 Kempford Gardens, Earl's Court, London, S.W. 346,529.
- "SERANTI"; for a pharmaceutical preparation (3). By Leon Etienne Louis Darrasse, 13 Rue Pavée, Paris. 346,582.
- "ISORON"; for medicinal chemicals (3). By C. M. Boehringer Sohn, Nieder-Ingelheim on the Rhine. 346,601.
- "RYSTOIDS"; for medicinal chemicals (3). By Reynolds & Branson, Ltd., 13 Briggate, Leeds. 346,731.
- Device of cross and word "WHITECROSS"; for goods (11). By Shirley Bros., Ltd., 4 Rockingham Street, London, S.E. 344,908.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, December 18

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Lantern-lecture by Mr. Frederick Enock on "Insect Intelligence."

Incorporated Society of Pharmacy and Drug-store Proprietors, Mitre Hotel, Manchester, at 3.30 P.M. Meeting.

Thursday, December 19.

Chemical Society, Burlington House, London, W., at 8.30 P.M. Among the papers to be communicated are the following: "Dibenzyl and Diphenyl Silicols and Silicones," by Mr. G. Martin; "The Photography of Absorption Spectra," by Mr. T. R. Merton; "Diphenylene," Part II, by Messrs. J. J. Bobbie, J. J. Fox, and A. J. H. Gauge; and "A New Method for the Estimation of Hypochlorites," by Mr. H. G. Williams.

Chemists' Assistants' Association, 73 Newman Street, London, W., at 8.30 P.M. Christmas smoking-concert, Mr. A. R. Arrowsmith in the chair.

THE CHEMISTS' BALL is to be held at the Whitehall Rooms, Hôtel Métropole, London, S.W., on January 15. Mr. Alan Francis, 22 to 30 Graham Street, London, N., is the Hon. Secretary.

THE SOUTH OF ENGLAND COLLEGE OF PHARMACY DINNER will be held in the Venetian Chamber of the Holborn Restaurant on January 8, 1913. Mr. John C. Umney, F.C.S., President of the British Pharmaceutical Conference, has promised to take the chair.

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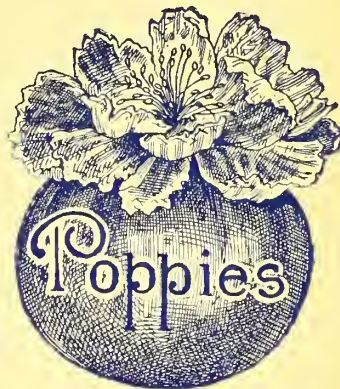
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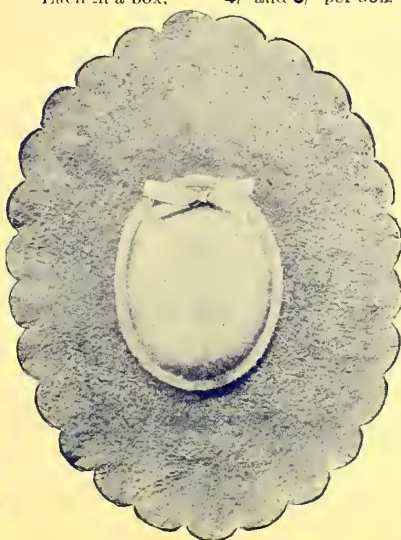


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